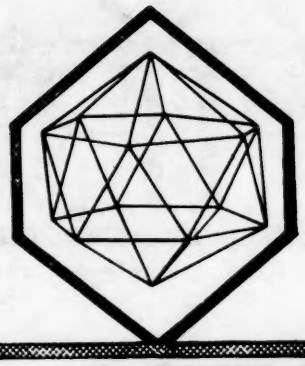
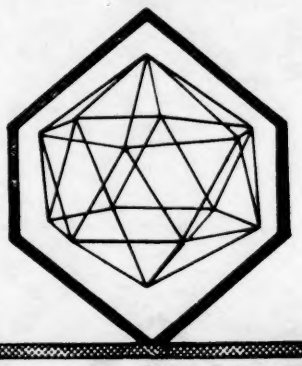


POLYHEDRON

SUBJECT INDEX FOR VOLUME 10, 1991

PERGAMON PRESS

OXFORD · NEW YORK · SEOUL · TOKYO



POLYHEDRON

The International Journal for Inorganic and Organometallic Chemistry

Editor-in Chief:
Sir Geoffrey Wilkinson, *Imperial College of Science and Technology*

Executive Editors:
Rest of the World
D C Bradley, *Queen Mary and Westfield College, University of London, Mile End Road, London E1 4NS, U.K. Fax:* (081) 983 0625

U.S.A. and Canada
M H Chisholm, *Department of Chemistry, Indiana University, Bloomington, IN 47405, U.S.A. Fax:* (812) 855 7148

Editorial Board:
E W Abel, *University of Exeter*
R D Adams, *University of South Carolina*
E C Constable, *University of Cambridge*
F A Cotton, *Texas A & M University*
D Coucouvanis, *University of Michigan*
A H Cowley, *University of Texas at Austin*
I G Dance, *University of New South Wales*
W J Evans, *University of California at Irvine*
R D Gillard, *University of Wales, Cardiff*
M L H Green, *University of Oxford*
N N Greenwood, *University of Leeds*
W A Herrmann, *Technische Universität München*
R H Holm, *Harvard University*
M B Hursthouse, *University of Wales, Cardiff*
A Ludi, *University of Berne*
T J Marks, *Northwestern University Illinois*
S F Mason, *King's College, University of London*
F Mathey, *Equipe CNRS–SNPE*
W McFarlane, *University of Newcastle upon Tyne*
J A Osborn, *Université Louis Pasteur*
R J Puddephatt, *University of Western Ontario*
R Schmutzler, *Institut für Anorganische und Analytische Chemie der Technischen Universität, Braunschweig*
F G A Stone, *Baylor University*
P Stoppioni, *Università Degli Studi di Firenze*
A G Sykes, *University of Newcastle upon Tyne*
K Vrieze, *Universiteit van Amsterdam*
K Wade, *University of Durham*
A Yamamoto, *Waseda University*

Polyhedron Reports and **Polyhedron Symposia-in-Print**
Editors:
M H Chisholm, *Indiana University*
E C Constable, *University of Cambridge*

Production Editor:
J K Stoddard, *Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, U.K. Fax:* (0865) 743948

Publishing, Subscription and Advertising Offices: Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, U.K.; or Pergamon Press Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

Twenty-four issues per year—published 2 issues per month

Annual Subscription Rates (1992)

Annual institutional subscription rate (1992) £1125.00 (US $2040.00). Two-year institutional rate (1992/93) £2137.50 (US $3876.00). Sterling prices are definitive. US dollar prices are quoted for convenience only, and are subject to exchange rate fluctuation. Personal subscription rates for those whose library subscribes at the regular rate are available on request. Prices include postage and insurance and are subject to change without notice. Subscription rates for Japan include despatch by air and prices are available on application.

Second class postage paid at RAHWAY NJ. Postmaster send address corrections to Pergamon Press Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

Copyright © 1992 Pergamon Press plc

Whilst every effort is made by the publishers and editorial board to see that no inaccurate or misleading data, opinion or statement appears in this journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the sole responsibility of the contributor or advertiser concerned. Accordingly, the publishers, the editorial board and editors and their respective employees, officers and agents accept no responsibility or liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement.

VOLUME 10

SUBJECT INDEX

(Compiled by Peter Thornton)

A

Ab initio calculations
  cluster compounds, group 14, 1299
  propellanes, 1247
  silanes, 1265
Acetates and acetato complexes
  cobalt(II), 1333,1395
  copper(II), 793,873,1333,2301
  europium, 1385
  lead(II), 1657
  molybdenum(II), 229,2573
  molybdenum(III,IV), 2203
  palladium(I), 2523
  palladium(II), 2037
  rhenium(II), 79
  rhodium(I,II), 2551
  ruthenium(II), 113
  ruthenium(II,III), 829
  ruthenium(III), 113
  silicon, 1173
  thallium(III), 2069
  uranium(VI), 779,2399,2567
  zinc, 121
Acetohydroxamates
  silicon, 1131
Acetonitrile complexes
  copper(I), 347
  molybdenum(II), 433,1717,2283, 2519
  palladium(II), 1513
  rhenium(I,II),(II), 79
  rhenium(V), 2241
  ruthenium(II),(IV), 1173
  tungsten(II), 433,595
Acetophenone, enantioselective hydrosilation, 1061
Acetyls
  molybdenum(II), 1705
Acetylcyclopentadienyls
  cobalt(III), 725
Acetylferrocene-3-nitrobenzoyl-hydrazone complexes
  lanthanides, 2185
Acetylsalicylates
  tin(IV), 509
Acrylamide polymerization with Cr(VI) and Cu(II), 237
Acrylonitrile complexes
  B, Sb, Sn, Ti, 2131
Acyls
  Co(I),Fe(II),Mn(I), 717
  molybdenum(II), 717,1705
  Re(I),Rh(III), 717
  ruthenium(II), 963
Acylpyrazolonates
  uranium(VI), 1683
Adenosine complexes
  ruthenium(III), 2465
Alanine complexes
  chromium(III), 575
  cobalt(III), 977
Albite, 55
Alcohols, oxidation catalysed by Ru(III) complexes, 2137,2511
Alcohol complexes
  aluminium, 1657
  astatine(I), 11
  bismuth(III), 2617
  cadmium, 2111
  caesium, 337
  lanthanum, 1049
  molybdenum(VI), 2617
  neodymium, 1559
  niobium, 2031
  potassium, 337
  rubidium, 337
  sodium, 2617
  tantalum, 2031
  tungsten(VI), 2617
  yttrium, 1049
Alkanediyl complexes
  iron(II), ruthenium(II), 963
Alkenes
  hydrogenation catalysed by Rh(II) complex, 2729
  polymerisation catalysed by Mo(II) complexes, 2283
Alkene complexes
  iridium(I), 1595
  iron(II), ruthenium(II), 963
  zirconium, 1
Alkenediyl complexes
  palladium(II), 561
Alkenyls
  ruthenium(II), 421
Alkoxides
  aluminium, 1639,1733,1967
  barium, 2045
  bismuth, 437,2617
  caesium, 337
  chromium(III), 2255
  cobalt(II), 1733,2791
  copper(II), 1733,1767,1791,2791
  germanium, 1153
  iron(II), 1163,2791
  lanthanum, 949,1049
  lead(II), 1103,1657
  lithium, 805
  manganese(II), 2791
  mercury, 2065
  molybdenum(III), 2309,2839
  molybdenum(VI), 2617
  neodymium, 1559
  nickel(II), 1733,2791
  Pd(II), Pt(II), 2065
  potassium, rubidium, 337
  silicon, 1097,1173
  sodium, 2617

tungsten(III), 2309,2839
tungsten(VI), 477,2617
yttrium, 1049
zinc, 2791
zirconium, 949
Alkyls
gallium, 1897
germanium, 1153,1221,2347
hafnium, 1177
iron(II), 963,1177
mercury, 1465
molybdenum(II), 1705
phosphorus, 261
platinum(II), 993,1411
ruthenium(II), 963
silicon, 1097,1147,1227,1231
thallium(III), 517,1465
tin(IV), 1085,1497,1717,2683
titanium, 1177
tungsten(II), 1177
zirconium, 1177
Alkylamides
molybdenum(III), 2839
platinum(II), 747
rhenium(VII), 2241
tungsten(III), 1215,2839
tungsten(VI), 477
Alkylidene complexes
tungsten(IV), 215
Alkylidyne complexes
tungsten(IV), 215
Alkylimides
cobalt, 1423
molybdenum(VI), 463
niobium(V), 1959
rhenium, 1423,2241,2647
ruthenium, 291
tungsten(VI), 477
Alkyne complexes
chromium(0), 1427
molybdenum(II), 2519
palladium(I), 2523
platinum(0), 909
rhodium, 1995
tungsten(II), 711
Alkynyl complexes
platinum(II), 2153
Allyls
chromium(I), 1427
molybdenum(II), 605
niobium(III), 1075
tungsten(III),(IV), 459
1-Allylimidazole complexes
molybdenum(VI), 33
Allylphosphido complexes
osmium, 1955
Allyltrimethylsilane, reaction with WCl_6, 2089
Aluminium
alkoxides, aminoalkoxides, carboxylates, diketonates, review, 1967
alkoxide heterometallic complexes, 1733
alkoxide siloxides, 1639
oxide minerals, 55
phosphorus oxyanion water complexes, 659
polyphosphates, 1527
siloxide complexes, 1367
Aluminohydrides
Mo(II), W(II), 595
Amide complexes
cobalt(III), 2075
platinum(II), 1473
sodium, 1877
thorium, 2809
uranium(VI), 1683
Amidopyridine complexes
lanthanides, 2405
Amines, reaction with ruthenium complex, 1799
Amine complexes
astatine(I), 11
cadmium, 409
caesium, 221
cobalt(II), 409
cobalt(III), 977,1449,2075,2597
copper(II), 103,409,495,823,883, 941,1653,1675,1791,1809
europium, 1385
gallium, 1897
iron(II), 409
iron(III), 1809
lead(II), 409
manganese(II), 409
molybdenum(III), 2309
nickel(II), 823,2725
palladium(II), 1521
platinum(II), 799
rhenium(V), 243
rhenium(VII), 2241
rhodium(I), 1061
rhodium(III), 1617
rubidium, 221
ruthenium, 288
sexidentate, 409
silver, 19
tungsten(III), 2309
tungsten(VI), 477
zinc, 409
Aminoacid complexes
chromium(III), 575
cobalt(III), 977,2717,2847
copper(II), 273
palladium(II), 333
Aminoacid Schiff base complexes
copper(II), 2163
Aminoalkoxides
aluminium, review, 1988
barium, 2045
Aminoalkylsalicylaldimine complexes, copper(II), 1653
2-Aminoethylphosphonic acid complexes, lutetium, 175
2-Amino-3-hydroxypyridine complexes
ruthenium(III), 2137
2-Aminoisobutyrates
cobalt(III), 977
Aminophenoxides
ruthenium(III), 2137
titanium(IV), 1847
2-Aminopyrimidine complexes
copper(II), 873
ruthenium(II), 1727
4-Aminopyridine complexes
ruthenium(III), 1139
Aminothiolates
cadmium, 325
Ammonia complexes
cobalt(III), 2075,2317,2495
platinum(II), 799
ruthenium(II), 653,1139,1713
ruthenium(II,III), 653
ruthenium(III), 1139

t-Amyl alcohol, amyloxide
complexes,
lead(II), 1103
yttrium, 1049
t-Amylamine complexes
europium, 1385
Angular overlap calculations
chromium(III) oxalate complexes, 2673
cobalt(III) oxalate complexes, 2665
nickel(II) halide pyridine thiocyanate complexes, 1759
Aniline complexes
europium, 1385
gallium, 1897
Mo(III), W(III), 2309
p-Anisates
ruthenium(II,III), 491
Antimony(V)
chloride nitrile complexes, 2131
Antipyrine Schiff base complexes
thorium(IV), uranium(VI), 2399
Antitumor properties, titanium(IV)
aminophenoxide carboxylate chloride cyclopentadienyl thiophenoxide thiosalicylate complexes, 1847
Arene complexes
potassium, 2353
ruthenium(II), 1091,1727
Arginine complexes
cobalt(III), 2717
Arsenic(V)
chloride phenoxide phenyl complexes, 789
fluoride, in polysilanes, 1227
Arsine complexes
cobalt(I), 2535
iron(II), 2095
molybdenum(II), 665
osmium(III), 2511
ruthenium(III), 2137
Aryls
arsenic(V), 789
germanium, 1153,2347
iridium(IV), 1457
iron(II),717
manganese(I), 717
mercury, 187,1013,1465
molybdenum(VI), 463
nickel(II), 2821
palladium(II), 1513,2037
platinum(II), 909
review, 135
rhenium(I), 717
rhodium(III), 187
silicon, 1173,1231
thallium(III), 1465
tin(IV), 1085
Arylamides
gallium, 1897
molybdenum(III), 2309
platinum(II), 747
potassium, 1839
rhenium(VII), 2241
sodium, 1839
tungsten(III), 2309
Arylimides
rhenium(VI), 1539
ruthenium, 291
Aryliminoisoindoline complexes
molybdenum(II), 229
2-Aryltelluroethoxides,
Hg, Pd(II), Pt(II), 2065
Ascorbate complexes
ruthenium(III), 2711
Ascorbic acid, oxidation catalysed by Cu(II) complexes, 731
ASED - MO calculations
copper dithiolene complexes, 2377
Astatine(I)
halide chelate complexes, 11
Atrolactate complexes
osmium(VI), 61
Azide complexes
chromium(III), 373
cobalt(III), 2597
copper(II), 2451
iron(III), 373
nickel(II), 2659,2725
palladium(II), 1513
Azole complexes
cobalt(II), 1333
copper(II), 893,1333,1767,1809
iron(III), 1809
molybdenum(III), 323
molybdenum(VI), 33
nickel(II), 1031,2659
palladium(II), 1513
platinum(II), 1443
ruthenium(III), 2559
tungsten(II), 711

B

Barium
aminoalkoxide, 2045
diimine pyridine silylamide, 769
oxide in feldspar glass, 55
Benzene complexes
potassium, 2353
ruthenium(II), 1727
Benzene-1,2-dioxydiacetates
calcium, sodium, 1565
Benzenethiolates
palladium(II), 1343
Benzil Schiff base complexes, 973
Benzimidazole complexes
copper(II), 893
molybdenum(III), 323
molybdenum(VI), 33
Benzoates
palladium(I), 2523
samarium, 1599
tin(IV), 509
titanium(IV), 1847
ytterbium, 1599
Benzo-15-crown-5 complexes
potassium, 1025
Benzohydroxamates
silicon, 1131
Benzoic hydrazide complexes
ruthenium(III), 2137
Benzoyldiazenide complexes
rhenium(V), 1539
S-Benzyldithiocarbazate Schiff base complexes, 973
Benzylfluorenyls
germanium, 1153
Betaine complexes
copper(II), 273
silver(I), 1723,2687

Biaryls, formation catalysed by
Pd(II) complex, 2037
Bicyclo[2.2.1]hept-5-ene-2-carboxylate complexes
copper(II), 2273
molybdenum(II), 2273,2283
ruthenium(II,III), 2273
N,N'-Bis(2-aminopropyl)oxamide complexes, Co(II), Cu(II), 1787
N,N'-Bis(3-aminopropyl)oxamide complexes, nickel(II), 103
Bis(arylimino)isoindoline complexes, molybdenum(II), 229
Bis(benzylthio)methane complexes
palladium(I),(II), 561
Bis[bis(2-diphenylphosphinoethyl)-amino]ethane complexes
copper(I), 1827
1,2-Bis[bis(2-methylthiophenyl)-phosphino]ethane complexes
Mo(0),W(0), 1549
1,2-Bis(di-*n*-butylphosphino)ethane complexes, Pt(0),(II), 899
1,4-Bis(dicyclohexylphosphino)butane complexes, Pt(II), 867
1,2-Bis(dicyclohexylphosphino)ethane complexes,
platinum(0),(II), 899,909
Bis(dicyclohexylphosphino)methane complexes, Ru(II),(III), 1713
1,3-Bis(dicyclohexylphosphino)propane complexes, Pt(II), 909
1,2-Bis(dimethylphosphino)ethane complexes
silver(I), 737
tungsten(II),(IV), 595
1,3-Bis(diphenylphosphinoacetyl)-benzene complexes, Pd(II), 1521
1,4-Bis(diphenylphosphino)butane complexes, Pt(II), 1411
1,2-Bis(diphenylphosphino)ethane complexes
cobalt(II), 553
molybdenum(II), 665
molybdenum(V), 1459
niobium(-I), 389
platinum(0), 899,909
platinum(II), 899,909,1411
ruthenium(II), 1019
tungsten(IV), 2827
tungsten(VI), 1311
1,2-Bis(diphenylphosphino)ethene complexes, Pt(II), 993
Bis(2-diphenylphosphinoethyl)ether complexes
molybdenum(IV), 467
Bis(2-diphenylphosphinoethyl)-phenyl)phosphine complexes
platinum(II), 2471
1,1'-Bis(diphenylphosphino)ferrocene complexes
manganese(0), 2437
platinum(II), 1411
rhenium(0), 2437
Bis(diphenylphosphino)methane complexes
cobalt(II), 553
molybdenum(0), 2611
platinum(II), 1411,2153
rhenium(I,II),(II), 79
rhodium(I), 2153
1,3-Bis(diphenylphosphino)-2-methylprop-2-ene complexes
Cr(0), Mo(0), W(0), 2381
1,3-Bis(diphenylphosphino)propane complexes, Pt(II), 1411
1,2-Bis(dipropylphosphino)ethane complexes, Cr(0), 1427
1,2-Bis(di-*o*-tolylphosphino)ethane complexes
tungsten(IV), 1007
Bis(2-hydroxy-5-methylphenyl)telluride complexes, Hg,Pd,Pt, 2693
Bis(2-methylthiophenyl)phenylphosphine complexes, Re(I), 1603
Bismuth
alcohol alkoxide oxo heterometallic complexes, 2617
alkoxide diketonate ether siloxide complexes, 437
chloride heteropolynuclear complexes, 123
Bismuthine complexes
molybdenum(II), 665
1,8-Bis(2-pyridyl)-3,6-dithiaoctane complexes, copper(II), 1647
Bis(pyridyl)triazanonane, -undecane complexes, Co(III), 2597
Bis(trimethylsilyl)amides
barium, 769
germanium, tin(II),(IV), 1203
Bis(trimethylsilyl)cyclopentadienyls, tin(II), 1203
Bis(trimethylsilyl)methyls
germanium, 1153
Bis(trimethylsilyl)phosphides
rhenium(VII), 2241
Bonding and structure, book review, 2083
Boric acid catecholate complexes, 613
Borohydrides
copper(I), 1827
Boron
chloride nitrile complexes, 2131
diimine fluoride complex, 2221
heterocyclic compounds, 1497
Bromides and bromo complexes
astatine(I), 11
cadmium, 2111
copper(II), 823,941,1333,1579, 1675,2301,2529
gallium, 2757
gold(III), 1939
indium, 1069
iron, 203
iron(II), 963
mercury, 351,2611
molybdenum(0), 2611
molybdenum(II), 2283
molybdenum(III), 323,1667
molybdenum(V), 997
nickel(II), 1759
niobium(I), 389
niobium(II,III), 2031
palladium(II), 1507,2265
platinum(II), 909,1443
platinum(IV), 19,2191
rhenium(I), 1603
rhenium(III), 877
rhodium(III), 2265
ruthenium, 583
ruthenium(II), 963
ruthenium(III), 2137

tantalum(II,III), 2031
thorium, 2399,2567,2809
tin(IV), 1497
tungsten(V), 997
tungsten(VI), 1311
uranium(VI), 2399,2567
vanadium(IV), 1817
2-Bromobenzoates
lanthanides, 1599
5-Bromophenanthroline complexes
iron(II), 703
4-Bromothiophenoxides
chromium(VI), 753
Butadiene complexes
chromium(0), 1427
niobium(-I), 389
2-Butanol complexes
Nb(II,III), Ta(II,III), 2031
t-Butanol complexes
caesium, 337
lanthanum, 1049
potassium, rubidium, 337
yttrium, 1049
3-Butenoates
molybdenum(II), 2283
n-Butoxides
lead(II), 1103
t-Butoxides
aluminium, 1733
caesium, 337
cobalt(II), copper((II), 1733
iron(II), 1163
lanthanum, 949,1049
lead(II), 1103,1657
lithium, 805
molybdenum(III), 2309
nickel(II), 1733
potassium, 337
rubidium, 337
tungsten(III), 2309
tungsten(VI), 477
yttrium, 1049
zirconium, 949
n-Butyls
tin(IV), 1717
t-Butyls
gallium, 1897
germanium, 1153
silicon, 1147
t-Butylamides
rhenium(VII), 2241
tungsten(VI), 477
n-,*s*-Butylamine complexes
europium, 1385
t-Butylamine complexes
rhenium(VII), 2241
tungsten(VI), 477
t-Butylcyclopentadienyls
iron(II), 2095
tungsten(III), 459
t-Butyldimethylsiloxides
potassium, 2699
1-Butylimidazole complexes
molybdenum(VI), 33
t-Butylimides
cobalt, 1423
molybdenum(VI), 463
niobium(V), 1959
rhenium, 1423,2241,2647
tungsten(VI), 477
t-Butylisocyanide complexes
molybdenum(0), 267
rhodium(I), 2153
tungsten(0), 267
4-*t*-Butylphenoxides
arsenic(V), 789
4-*t*-Butylpyridine complexes
barium, 769
palladium(II), 2265
n-Butylthiolates
chromium(VI), 753
t-Butylthiolates
chromium(VI), 753
iron(II), 1163
palladium(II), 1343
4-*t*-Butylthiophenoxides
cobalt(II), 553
Butyrylhydrazone complexes
lanthanides, 2779
2-Butyne complexes
chromium(0), 1427
molybdenum(II), 2519
tungsten(II), 711

C

Cadmium
diimine pyridinethionate complexes, 197
dithiocarbamate mercaptoamine thioether complexes, 325
halide methanol pyridine-*N*-oxide complexes, 2111
salicylaldimine thioether sexidentate complexes, 823
Schiff base thiolate complexes, 771
sexidentate amine complex, 409
trifluoromethanesulphonate, 2757
Caesium
alcohol alkoxide complexes, 337
crown ether complexes, 221
hexachlorophosphate, 2217
Calcium
benzenedioxydiacetate sodium complex, 1565
carboxylate crown ether complexes, 1591
dicarboxylate ether water complex, 1569
oxide in feldspar glass, 55
Carbaboranes, 1497
Carbaborane complex
copper(I), 471
Carbene complexes
book review, 1843
cobalt(III), 725
germanium, 1153
2-Carbomethoxyethyls
tin(IV), 1085
Carbon, cluster structures, molecular orbitals, 1299
Carbonates and carbonato complexes
europium, 1385
Carbonyls
chromium, 591
chromium(-I), 2487
chromium(0), 1319,2381
cobalt, 1423
cobalt(I), 717,2535
cobalt(III), 725
iridium(I), 1595
iron(-I), 2487
iron(0), 123,543,2105,2423

iron(I), 2423
iron(II), 841,963,1163,1177,2095
manganese(0), 2437,2487
molybdenum, 1663
molybdenum(0), 123,267,1549,2381, 2611
molybdenum(II), 133,433,665,717, 1549,1705,1717,2519
nickel(0), 2423
niobium(-I), 389
osmium, 881,1955
palladium, 673
rhenium, 1423
rhenium(0), 2437
rhenium(I), 1603,1873
rhenium(I,II), 79
rhenium(II), 79,1873
rhenium(III), 877
rhodium(I), 543,1595,2153
rhodium(III), 187
ruthenium, 277,1013,1955
ruthenium(II), 421,837,963,1019, 1713,2265
ruthenium(III), 2559
tungsten, 1663
tungsten(0), 267,1549,2381
tungsten(II), 433,711,1177,1549, 1717
tungsten(IV), 215
vanadium(-I), 2487
Carboxylates
aluminium, 1985
calcium, 1591
cobalt(II), 1333,1395
copper(II), 793,873,893,1333,1893, 2273,2301
erbium, 1921
europium, 1385
iron(II), 483
lanthanides, 1385,1599,1921
lead(II), 1657
mercury, 133,187
molybdenum(II), 229,2273,2283,2573
molybdenum(III,IV), 2203
neodymium, 1921
palladium(I), 2523
palladium(II), 2037
potassium, 1591
rhenium(II), 79
rhenium(V),(VII), 2241
rhodium(I,II), 2551
rhodium(III), 187
ruthenium(II), 113
ruthenium(II,III), 491,829,2273
ruthenium(III), 113
samarium, 1599
silicon, 1173
silver(I), 1723,2687
sodium, 1591
thallium(III), 2069
tin(IV), 509
titanium(IV), 1847
uranium(VI), 779,2399,2567
ytterbium, 1599
zinc, 121
zirconium, 2341
Catechol, oxidation catalysed by binucleating complexes, 1353
Catecholamine complexes
formation constants, 1401
Catecholates
boron, 613
CD spectra
chromium(III) alanine complex, 575
cobalt(III) arginine hydroxide complexes, 2717
copper(II) aminoacid - pyridoxal phosphate Schiff base complexes, 2163
copper(II) dehydrodipeptide complexes, 2331
Cerium(III)
amidopyridine nitrate perchlorate thiocyanate water complexes, 2405
chloride hydrazone phenanthroline water complexes, 1491
disulphoxide perchlorate complexes, 629
hydrazone complexes, 2185
Chemical speciation modelling, 1105, 1113,1121
Chlorides and chloro complexes
antimony(V), 2131
arsenic(V), 789
astatine(I), 11
bismuth, 123
boron, 2131
cadmium, 2111
chromium(0),(I), 1427
chromium(II), 2541
cobalt(II), 365,811,1333,1733,2785
cobalt(III), 823,977,1449
copper(I), 935
copper(II), 365,495,731,823,1091, 1333,1579,1675,2301,2529,2541, 2785,2851
gold(III), 19,633,1025,1631,1939
hafnium, 1177
iridium(III), 1857
iron, 203
iron(II), 365,2785
lanthanides, 1491,1599
lanthanum, 949,1491
magnesium, 2457
mercury, 351,2065,2611,2693
molybdenum, 429
molybdenum(0), 2611
molybdenum(II), 1717,2519
molybdenum(III), 323,1667
molybdenum(IV), 2799
molybdenum(V), 997,1459,2457,2809
nickel(II), 365,415,1733,1759,2659
niobium(II), 389
niobium(II,III), 2031
niobium(V), 1959
osmium(III), 2511
palladium(I), 561
palladium(II), 89,415,561,579,1343, 1507,1513,1521,2065,2265,2337, 2693
platinum(II), 501,579,747,851,899, 909,1443,1473,1573,2065,2153, 2693,2737
platinum(IV), 1573,2191
rhenium, 1903
rhenium(I), 1603
rhenium(I,II),(II), 79
rhenium(II,III,III), 741
rhenium(V), 243,1539,2241
rhenium(V,VI), 2241
rhodium(I), 1061
rhodium(I,II), 2551
rhodium(III), 717,1611,1617,2229, 2265
ruthenium, 583,1013
ruthenium(II), 837,1019,1091,1699,

1713,1727,2137,2265
ruthenium(II,III), 491,2273
ruthenium(III), 1713,2137,2229, 2511,2559,2711
samarium, 1599
selenium(II), sulphur(II), 1037
tantalum(II,III), 2031
thallium(III), 885
thorium, 2399,2567,2809
tin(II), 1721
tin(IV), 1497,1717,2105,2131,2683
titanium, 1177,1847,2131
tungsten(II), 595,1717
tungsten(V), 595
tungsten(V), 997,2089
tungsten(VI), 477,1311
uranium(VI), 2399,2567
vanadium(IV), 1817
ytterbium, 1599
zirconium, 1177,2341
Chlorodicyclohexylphosphine complexes
nickel(0), 2423
Chlorodiphenylphosphine complexes
nickel(0), 2423
Chlorogenic acid complexes
boron, 613
Chlorophenols, complexes with Co(III) diketonate, 1405
4-Chlorophenoxides
arsenic(V), 789
Chlorophosphine complexes
nickel(0), 2423
Chromate, in polymerization photoinitiation, 237
Chromate complexes
copper(II), 2179
Chromium
carbonyl cyclopentadienyl dioxygen seleno complexes, 591
Chromium(-I)
carbonylate anions, 2487
Chromium(0)
alkyne chloride diene diphosphine phosphine complexes, 1427
carbonyl diaminodisulphide complexes, 1319
carbonyl diphosphine complexes, 2381
Chromium(I)
allyl chloride diene phosphine complexes, 1437
Chromium(II)
aryls, 139,150,164
chloride diimine complexes, 2541
Chromium(III)
alanine complex, 575
alkoxythiolate complex, 2255
aryls, 139,150,164
azide porphyrin complex, 373
fluoride complex, 2605
hydroxide water complexes, 619, 1865,2389
oxalate complex, 2673
Chromium(IV)
aryls, 139
Chromium(VI)
chromate, 237
oxo thiolate complexes, 753
Chrysin complexes
silicon, 1131
Ciliatine complex
lutetium, 175
Citrates
osmium(VI), 61
Citrulline complexes
palladium(II), 333
Clays, absorption of methyl salicylate, 567
Cluster complexes
book reviews, 2083,2085
carbon and nitrogen centred, 1749
group 14, molecular orbitals, 1299
ruthenium, review, 277
CNDO calculations
molybdenum(IV) chloride oxo thio trinuclear complexes, 2799
Cobalt
alkylimide carbonyl complex, 1423
phosphine seleno thio complexes, 927
Cobalt(-I)
aryls, 156
Cobalt(0)
aryls, 156
Cobalt(I)
acyl carbonyl phosphine complex, 717
arsine carbonyl phosphine stannyl complexes, 2535
Cobalt(II)
acetate quinquepyridine complex, 1395
alkoxide chloride aluminium complexes, 1733
amine chloride complex, 1449
aryls, 143,156
azole carboxylate chloride complexes, 1333
chloride hydrazinium water complex, 365
chloride phenanthroline entwined complexes, 811
chloride sulphate tetraimine macrocyclic complexes, 2785
cysteinesulphinate complex, 1453
diarylphosphate methanol pyridine water complexes, 2771
diimine oxamide copper(II) complexes, 1787
diphosphine thiolate complexes, 553
fluoride complex, 2605
hydride triphosphine triphosphorus complexes, 2123
hydroxyketone binucleating complexes, 1353
phenanthroline complex, 1803
pyridylcarbinol complexes, 2791
sexidentate amine complex, 409
sulphonates, 2757
tetramine macrocyclic complexes, 1779
Cobalt(III)
amide amine ammonia sulphoxide complexes, 2075
amine aminoacid chloride nitrite pyridine thioether complexes, 977
amine azide pyridine thiocyanate complexes, 2597
ammonia malate complex, 2495
ammonia molybdate complex, 2317
arginine hydroxide complexes, 2717
carbene carbonyl cyclopentadienyl tetracyanoethene complex, 725
chloride salicylaldimine thioether

sexidentate complexes, 823
cysteine sulphinate complexes, 2847
diketonate phenol complexes, 1405
hydroxide peroxide tetramine complexes, 107
ketoimine complexes, 1687
oxalate complex, 829,2665
porphyrin water complex, 1379
pyridine tetramine macrocyclic complex, 1779
pyridine-*N*-oxide thiolate compounds, 2651
Conductimetric titrations
heteropolymetallic alkoxides, 2617
Controlled potential electrolysis
nickel(II) dithiocarbamate triamine complexes, 2025
platinum(II) chloride diphosphine complexes, 899
Copper
diiminate iodide complexes, 955
dithiolene complex, 2377
iodide tetraazaannulene complexes, 1911
Copper(I)
acetonitrile perchlorate phosphine complexes, 347
aryls, 145,159,167
borohydride polyphosphine complex, 1827
carbaborane phosphine complex, 471
chloride phosphine thione complexes, 935
diene diketonate complexes, 2293
diketonate phosphine complexes, 645
phosphine iron(0) complex, 2423
phosphine thio heterometallic complexes, 2743
pyrazine complex, 1835
tetramine macrocyclic binucleating complexes, 1373
Copper(II)
acetate pyridine complexes, 793
acetate pyrimidine complex, 873
alkoxide aluminium complexes, 1733
amine halide salicylaldimine thiocyanate thioether polydentate complexes, 823
amine oxamide nickel(II) complexes, 103
aminoacid complex, 273
aminoacid - pyridoxal phosphate Schiff base complexes, 2163
aminoalkylsalicylaldimine complexes, 1653
amino(hydroxymethyl)pyridine hydroxyquinoline complexes, 1791
azide terpyridyl complex, 2451
azole carboxylate halide hydroxide nitrate complexes, 1333
azole carboxylate salicylaldimine complexes, 893
bromide hexamine water binucleating complex, 941
carboxylates, 2273
carboxylate dipyridyl halide hydroxide complexes, 2301
carboxylate dipyridyl water complex, 1893
chloride diazoleaminophenoxide nitrate perchlorate complexes, 1809
chloride diimine complexes, 2541
chloride dimethylphosphite ruthenium(II) complex, 1091
chloride dipyridylamine pyridoxate water complex, 2851
chloride dipyridylamine water complex, 495
chloride hydrazinium water complex, 365
chloride phenoxide Schiff base complexes, 731
chloride sulphate tetraimine macrocyclic complexes, 2785
chromate diimine complexes, 2179
creatinine methoxide complexes, 1767
dehydropeptide complexes, 2331
diamine diketonate complexes, 1773
diamine nitrate complex, 2225
diaminooxamide cobalt(II) complexes, 1787
diaminopyridine halide nitrate water complexes, 1675
diarylphosphate dimethylformamide methanol pyridine water complexes, 2771
diimine pyridine Schiff base thiolate complexes, 1327
diimine pyridine-*N*-oxide-dithiocarbazate complexes, 1363
dipyridyl complex, 101
dipyridyl saccharinate complex, 403
four coordinate, molecular mechanics, 2079
halide complexes, 2529
halide nitrate quinoline - thioether water complexes, 1579
hydroxyketone binucleating complexes, 1353
ketoimine complexes, 1687
ketoimine pyridine thiolate complexes, 535
ketooxime complexes, 919
nitrate pyridine-*N*-oxide thiosemicarbazone complex, 1625
oxidation of diaminodisulphides, 1319
pyridine thioether complex, 1647
pyridylcarbinol complexes, 2791
salicylaldiminate, 2051
sexidentate amine complex, 409
sulphonates, 2757
tetramine complexes, 523,883,1373
thio water molybdenum(III,IV) complex, 2351
water complex in polymerization termination, 237
Copper(III)
tetramine macrocyclic binucleating complexes, 1373
Creatinine complexes
copper(II), 1767
platinum(II), 799
Crotonitrile complexes
B, Sb, Sn, Ti, 2131
Crown ligand complexes
caesium, 221
calcium, 1591
gadolinium, 1889
iron(II),(III), 763
mercury, 1545
potassium, 1025,1591,2699

rubidium, 221
ruthenium(II),(III), 1139
sodium, 1591,1877
Cubic complexes, 393
Cyanides and cyano complexes
iron(II), 653
mercury, 1013,2611
molybdenum(0), 2611
phosphorus(III), 1831
platinum(II), 909,2153
ruthenium, 1013
zinc, 1105
4-Cyanopyridine complexes
iron(II), 653
ruthenium(II),(II,III), 653
Cyanotrihydroborate complexes
rhenium(II), 79
Cyclam complexes
nickel(II), 103
Cyclic voltammetry
cobalt phosphine seleno thio complexes, 927
cobalt(II) acetate quinquepyridine complex, 1395
cobalt(II) chloride phenanthroline entwined complexes, 811
cobalt(II) hydride triphosphine triphosphorus complexes, 2123
copper diiminate iodide complexes, 955
copper(I) acetonitrile perchlorate phosphine complexes, 347
copper(I) phosphine thio heterometallic complexes, 2743
copper(II) chloride phenoxide Schiff base complexes, 731
copper(II) diarylphosphate dimethylformamide methanol pyridine water complexes, 2771
copper(II) tetramine macrocyclic complexes, 523
ferrocenes, 1741
iridium(IV) mesityl, 1457
iron(II) cyclopentadienyls, 483
manganese(II) quinizarine complexes, 1929
mercury thioether complex, 1545
molybdenum(III,IV) acetate dithiophosphate oxo thio complexes, 2203
molybdenum(V) dithiolate thio copper(I) complex, 2743
molybdenum(VI) azole oxo salicylaldimine complex, 33
nickel(II) dithiocarbamate triamine complexes, 2025
osmium(III) chloride phosphine quinone complex, 2511
platinum(II) chloride diphosphine complexes, 899
pyridine-*N*-oxide-2-thiol complexes, 2651
rhenium(II) carboxylate chloride cyanotrihydroborate diphosphine nitrile complexes, 79
rhenium(VI) arylimide maltol phosphine complex, 1539
rhodium(II) hydride phosphine complex, 2729
ruthenium(II) ammonia crown ether pyridine complexes, 1139
ruthenium(II) arene chloride dimethylphosphite copper(II) complex, 1091
ruthenium(II) chloride hydrazide phosphine complexes, 2137
ruthenium(II) chloride pyrazine sulphoxide complexes, 1699
ruthenium(II) diimine complexes, 1485
ruthenium(III) aminophenoxide arsine halide hydroxyquinoline complexes, 2137
ruthenium(III) ammonia crown ether pyridine complexes, 1139
ruthenium(III) arsine chloride quinone complex, 2511
tungsten(V) dithiolate thio copper(I) complex, 2743
Cycloheptatrienyls
molybdenum(0), 267
niobium(-I),(0),(I),(II), 389
tungsten(0), 267
Cyclohexanethiolates
palladium(II), 89
Cyclohexyl iodide complexes
rhenium, 1903
Cyclometallated compounds
palladium(II), 1513,1521
platinum(II), 255
1,5-Cyclooctadiene complexes
copper(I), 2293
iridium(I), 1595
rhodium(I), 543,1069,1595
Cyclooctene complexes
iridium(I), 1595
Cyclopentadienyls
chromium, 591
cobalt(III), 725
hafnium, 1177
iron(0), 123,2105
iron(II), 483,717,963,1177,1741, 2095,2437
lanthanides, 27,1599
manganese(0), 2487
molybdenum(0), 123
molybdenum(II), 133,665,717,1705
molybdenum(IV), 1189
niobium(0),(I),(II), 389
niobium(III), 1075
rhenium, 1903
rhenium(I),(II), 1873
rhenium(III), 877
rhenium(VII), 2241
ruthenium(II), 963,1173,1713,2483
ruthenium(III), 1713
ruthenium(IV), 1173
samarium, 1599
tin(II), 1203
titanium, 1177,1847
tungsten(II), 1177
tungsten(III), 459
tungsten(IV), 459,1189
ytterbium, 1599
zirconium, 1,1177,2341
Cyclopentanones, template synthesis with Zr compounds, 1
Cyclosilselenanes, 1231
Cysteine complexes
cobalt(III), 2847
Cysteinesulphinates
cobalt(III), 1453,2847
Cytidine complexes
ruthenium(III), 2465

D

Dehydrocoupling for element - element bond formation, review, 1239
Dehydropeptide complexes
  copper(II), 2331
Diamine complexes
  cobalt(II), 1787
  copper(II), 1773,2225
  gold(III), 19
  molybdenum(II), 2573
  molybdenum(VI), 2057
  nickel(II), 103,859
  platinum(II), 747,2191
  platinum(IV), 2191
  potassium, 1839
  silver, 19
  sodium, 1839
1,4-Diaminobutane complexes
  copper(II), 1773
Diaminodisulphide complexes
  chromium(0), 1319
1,3-Diaminopropane complexes
  copper(II), 1773
  molybdenum(II), 2573
  nickel(II), 103
Diaminopyridine complexes
  copper(II), 1675
O,O'-Diarylphosphates
  Co(II), Cu(II), Fe(II), 2771
Diazadiene complexes
  platinum(II), 255
4,7-Diaza-1-thiacyclononane complexes, Ag,Au(III),Pt(IV), 19
Diazenide complexes
  rhenium(V), 1539
1,4-Diboracyclhexa-2,5-diene, 1497
3,5-Di-*t*-butylcatechol, oxidation catalysed by Cu(II) complexes, 731
Di-*t*-butylchlorophosphine complexes, nickel(0), 2423
1,3-Di-*t*-butylcyclopentadienyls
  iron(II), 2095
Di-*t*-butylphosphide complexes
  iron(0), 543,2423
  iron(0,I),(I), 2423
  rhodium(I), 543
Di-*t*-butylphosphine complexes
  rhodium(I), 543
Di-*i*-butyl sulphide complexes
  palladium(II), 2037
1,1-Dicarboethoxy-2,2-ethylenedithiolates, Fe(IV), Mn(IV), 1803
Dicarboxylates
  calcium, 1569
  chromium(III), 2673
  cobalt(III), 829,2665
  titanium(III), 829
Dichloromethane complexes
  platinum(II), 993
Dichromate, hydrolysis, 753
Dichromate complexes
  copper(II), 2179
1,2-Dicyanobenzene complexes
  rhenium(II), 79
1,2-Dicyanoethene-1,2-dithiolates
  molybdenum(V), 2813
Dicyclohexylphosphido complexes
  iron(0),(I), 2423
Diene complexes
  chromium(0),(I), 1427
  copper(I), 2293
  iridium(I), 1595
  niobium(-I), 389
  rhodium(I), 543,1061,1595
  zirconium, 1
Diethyldithiocarbamates
  cadmium, 325
  molybdenum(VI), 1311
  nickel(II), 2025,2821
  ruthenium(II), 421,1019
  vanadium(IV), 1817
Diethyldithiophosphates
  Mo(III,IV), W(III,IV), 2203
Diethyl ether complexes
  tungsten(V), 2089
Differential pulse voltammetry
  cobalt(II) chloride phenanthroline entwined complexes, 811
Difluoro[dimethylaminomethyl(methoxy)]phenylphosphine complexes
  platinum(II), 2737
Digermanoxanes, 2347
Dihydrazone complexes
  nickel(II), 859
3,4-Dihydroxybenzoic acid complexes, boron, 613
3,4-Dihydroxycinnamic acid complexes, boron, 613
2,3-Dihydroxypyridine complexes
  silicon, 1131
Diimine complexes
  barium, 769
  boron, 2221
  cadmium, 197
  chromium(II), 2541
  cobalt(II), 1803
  copper(II), 101,403,1327,1363, 1893,2179,2301,2541
  europium, 1385
  iron(II), 703,1803
  lanthanides, 1385,1491
  molybdenum(0), 2611
  molybdenum(II), 2519
  molybdenum(V), 2813
  nickel(II), 103,859,1327,1803
  palladium(II), 1513,2037
  platinum(II), 255
  rhodium(I,II), 2551
  ruthenium, 298,303
  ruthenium(II), 653,1485
  ruthenium(II,III), 653
  vanadium(IV), 73
  yttrium, 2171
  zinc, 197,1803
Diketonates
  aluminium, review, 1980
  bismuth, 437
  cobalt(III), 1405
  copper(I), 645,2293
  copper(II), 1773
  molybdenum(II), 433,605
  palladium(II), 1513
  silicon, 1131,2463
  tungsten(III), 433
  uranium(VI), 1683
  zinc, 121
1,2-Dimethoxyethane complexes
  lithium, potassium, 2699
  tungsten(VI), 2417
Dimethylacetylene dicarboxylate complexes, palladium(I), 2523
Dimethylamides

molybdenum(III), 2839
rhenium(VII), 2241
tungsten(III), 1215,2839
2-Dimethylaminomethylphenyls
palladium(II), 1521
4-Dimethylaminopyridine complexes
barium, 769
ruthenium(III), 1139
2,3-Dimethylbutadiene complexes
chromium(0), 1427
4,4'-Dimethyl-2,2'-dipyridyl
complexes, Mo(V), 2813
Dimethyldithiocarbamates
nickel(II), 2025,2821
nickel(III), 2025
palladium(II), 1513
vanadium(IV), 1817
Dimethylethylenediamine complexes
copper(II), 2225
molybdenum(II), 2573
platinum(II),(IV), 2191
Dimethylformamide complexes
cobalt(III), 2075
N,N-Dimethylfurancarboselenoamide
complexes
Pd(II), Rh(III), Ru(II), 2265
2,9-Dimethylphenanthroline
complexes, molybdenum(0), 2611
4,7-Dimethylphenanthroline
complexes, iron(II), 703
Dimethyl(phenyl)arsine complexes
platinum(II), 851
Dimethyl(phenyl)methoxides
lithium, 805
Dimethyl(phenyl)phosphine
complexes
chromium(0),(I), 1427
iridium(III), 1857
iron(II), 963
molybdenum(II), 665
molybdenum(III), 1667
platinum(II), 1411
rhenium(I), 1873
ruthenium(II), 963
Dimethyl(phenyl)siloxides
potassium, 2353
Dimethyl(phenyl)silylmethyls
platinum(II), 1411
Dimethylphosphido complexes
iron(0),(0,I),(I), 2423
2,6-Dimethyl-4H-pyran-4-one
complexes
mercury, 351
2,6-Dimethyl-4H-pyran-4-thione
complexes
mercury, 351
2,3-Dimethylpyrazine complexes
copper(I), 1835
2,6-Dimethylpyrazine complexes
ruthenium(II), 1699
3,5-Dimethylpyrazolates
Pt(II), Rh(I), 2153
Dimethylsilyls
molybdenum(IV), 1189
Dimethylsulphoxide complexes
cobalt(III), 2075
ruthenium(II), 1699
Dinitrogen, reactions catalysed by
W(IV) complexes, 1007,2827
Dinitrogen complexes
ruthenium, 313
Dioxahexaazacyclotetracosane
complexes. copper(II), 941
1,4-Dioxan complexes
gallium(II), 95
Dioxygen complexes
chromium, 591
Diphenylacetylene complexes
chromium(0), 1427
platinum(0), 909
Diphenylamides
rhenium(VII), 2241
Diphenylarsino(diphenylphosphino)-
methane complexes
Pt(II), Rh(I), 2153
1,5-Diphenyl-1,5-diphosphacyclo-
octane complexes
Ni(II), Pd(II), 415
Diphenyldiselenophosphinates
sodium, 2641
Diphenylethenyl complexes
platinum(0), 909
ruthenium(II), 421
Diphenylphosphido complexes
rhenium(VII), 2241
Diphenylphosphino(phenylmethyl-
thio)methane complexes
palladium(I), 2523
Diphenyl(tolyl)phosphine complexes
platinum(II), 1411
Diphenyl(trifluoromethylphenyl)-
phosphine complexes
platinum(II), 1411
Diphosphazene complexes
osmium, 881
Diphosphine complexes
chromium(0), 1427,2381
cobalt(II), 553
molybdenum(0), 1549,2381,2611
molybdenum(II), 665,1549
molybdenum(V), 1459
nickel(II), 415
niobium(-I), 389
palladium(II), 415
platinum(0), 899,909
platinum(II), 867,899,909,993,
1411,2153
rhenium(I,II),(II), 79
rhodium(I), 2153
ruthenium(II), 1019,1713
ruthenium(III), 1713
silver(I), 737
tungsten(0), 1549,2381
tungsten(II), 595,1549
tungsten(IV), 595,1007,2827
tungsten(V), 595
tungsten(VI), 1311
Diphosphine selenide, sulphide
synthesis, 2381
Diphosphinoether complexes
molybdenum(IV), 467
2,2'-Dipyridyl complexes
barium, 769
boron, 2221
cobalt(II), 1787
copper(II), 101,403,1327,1363,
1893,2179,2301
europium, 1385
iron(II), 703
molybdenum(0), 2611
molybdenum(II), 2519
nickel(II), 103,1327
palladium(II), 1513,2037
rhodium(I,II), 2551
ruthenium(II),(II,III), 653
vanadium(IV), 73

zinc, 197
Dipyridylamine complexes
copper(II), 2851
nickel(II), 2725
4,4'-Dipyridyl-*N,N'*-dioxide complexes, thorium, 2809
Di(2-pyridyl)phenylcarbinol complexes, Co,Cu,Fe,Mn,Ni,Zn, 2791
Dipyridylpyridazine complexes
ruthenium(II), 1485
Disilacyclobutanediimines, 1147
Disulphide complexes
astatine(I), 11
lanthanides, 629
Mo(V), W(V), 997
1,4-Dithiane complexes
gallium(II), 95
Dithiapyranylidene complexes
nickel dithiolate, 687
Dithiocarbamates
cadmium, 325
molybdenum(VI), 1311
nickel(II), 2025,2821
nickel(III), 2025
palladium(II), 1513
ruthenium(II), 421,1019
tungsten(II), 711
vanadium(IV), 1817
Dithiocarbazate complexes
copper(II), 1363
nickel(II), 37
Dithiocarbazate ester Schiff base complexes, Cu,Ni, 1327
Dithiocarbonates
nickel(II), 2821
Dithiolates (dithiolenes)
copper, 2377
Fe(IV), Mn(IV), 1803
molybdenum(V), 2743,2813
nickel, 687
tungsten(V), 2743
Dithiophosphates
Mo(III,IV), W(III,IV), 2203
Dithiouracil complexes
copper(I), 935
Dodecahedral complexes, 393
Dodecahydrododecaborates
lanthanides, 2779
Double helical complex
silver(I), 127
Doxycycline complexes
Mo(VI), W(VI), 455
Dysprosium
amidopyridine nitrate thiocyanate complexes, 2405
chloride hydrazone phenanthroline water complexes, 1491
disulphoxide perchlorate complex, 629
hydrazone complexes, 2185

E

Eight coordination, interligand repulsions, 393
Electric conductance
cobalt(II) diimine oxamide copper(II) complexes, 1787
copper diiminate iodide complexes, 955
copper iodide tetraazaannulenes, 1911
copper(II) diaminooxamide cobalt(II) complexes, 1787
copper(II) diaminopyridine halide nitrate water complexes, 1675
copper(II) nitrate quinoline - thioether water complexes, 1579
iron(IV) dithiolate complexes, 1803
lanthanide chloride hydrazone phenanthroline water complexes, 1491
lanthanide disulphoxide perchlorate complexes, 629
manganese(IV) dithiolate complexes, 1803
molybdenum(0) carbonyl diimine diphosphine halide pseudohalide mercury complexes, 2611
nickel(II) aryl dithiocarbamate dithiocarbonate xanthate complexes, 2821
palladium(II) halide pyrimidinethione complexes, 1507
polysilanes doped with AsF_5, 1227
rhenium(II) chloride diphosphine nitrile complexes, 79
ruthenium(III) chloride pyridylphosphonate zinc complexes, 2229
ruthenium(III) edta nucleoside complexes, 2465
Electrochemical syntheses
fluorides, 2605
Electron, solvated, reaction with Mo(V) complex, 1459
Electronic spectra
boric acid catecholate complexes, 613
chromium(0) carbonyl diaminodisulphide complexes, 1319
chromium(II) chloride diimine complexes, 2541
chromium(III) alkoxythiolate complex, 2255
chromium(III) azide porphyrin complex pyrolysis products, 373
chromium(III) oxalate complex, 2673
chromium(VI) - copper(III) mixture on irradiation, 237
chromium(VI) oxo thiolate complexes, 753
cobalt(II) alkoxide chloride aluminium complexes, 1733
cobalt(II) azole carboxylate chloride complexes, 1333
cobalt(II) chloride phenanthroline entwined complexes, 811
cobalt(II) diarylphosphate methanol pyridine water complexes, 2771
cobalt(II) diimine oxamide copper(II) complexes, 1787
cobalt(III) amide amine ammonia sulphoxide complexes, 2075

cobalt(III) amine aminoacid chloride nitrite pyridine thioether complexes, 977
cobalt(III) arginine hydroxide complexes, 2717
cobalt(III) hydroxide peroxide tetramine complexes, 107
cobalt(III) ketoimine complexes, 1687
cobalt(III) oxalate complex, 2665
copper diiminate iodide complexes, 955
copper(I) chloride phosphine thione complexes, 935
copper(I) phosphine thio heterometallic complexes, 2743
copper(I) tetramine macrocyclic complexes, 1373
copper(II) acetate dipyridyl halide hydroxide complexes, 2301
copper(II) acetate pyridine complexes, 793
copper(II) alkoxide aluminium complexes, 1733
copper(II) azole carboxylate halide hydroxide nitrate complexes, 1333
copper(II) azole carboxylate salicylaldimine complexes, 893
copper(II) chloride diimine complexes, 2541
copper(II) chloride dimethyl-phosphite ruthenium(II) complex, 1091
copper(II) chloride phenoxide Schiff base complexes, 731
copper(II) chromate diimine complexes, 2179
copper(II) creatinine methoxide complexes, 1767
copper(II) dehydropeptide complexes, 2331
copper(II) diamine diketonate complexes, 1773
copper(II) diaminooxamide cobalt(II) complexes, 1787
copper(II) diaminopyridine halide nitrate water complexes, 1675
copper(II) diimine pyridine Schiff base thiolate complexes, 1327
copper(II) diimine pyridine-*N*-oxide dithiocarbazate complexes, 1363
copper(II) dipyridyl saccharinate complex, 403
copper(II) halide complexes, 2529
copper(II) halide nitrate quinoline - thioether water complexes, 1579
copper(II) ketoimine complexes, 1687
copper(II) ketoimine pyridine thiolate complexes, 535
copper(II) pyridine thioether complex, 1647
copper(II) tetramine complexes, 883
copper(II) tetramine macrocyclic complexes, 523,1373
copper(II) thio water molybdenum complex, 2351
disilacyclobutanediimines, 1147
ferrocenes, 1741
germoxy radicals, 2347
gold(III) chloride, 633
hydrazinium complexes, 365
iron(II) cyanide nitrile ruthenium(II) complex, 653
iron(III) azide porphyrin complex pyrolysis products, 373
iron(III) chloride diazoleamino-phenoxide methanol thiocyanate water complexes, 1809
iron(IV) dithiolate complexes, 1803
lanthanide amidopyridine nitrate perchlorate thiocyanate water complexes, 2405
lanthanide carboxylate water complexes, 1921
lanthanide chloride hydrazone phenanthroline water complexes, 1491
lanthanide disulphoxide perchlorate complexes, 629
lanthanide hydrazone complexes, 2185
lanthanide hydrazone water complexes, 2779
lanthanide nitrate sexadentate Schiff base water complexes, 683
macrocyclic tetraimine complexes, 2785
manganese(II) quinizarine complexes, 1929
manganese(IV) dithiolate complexes, 1803
methyl salicylate on clay minerals, 567
molybdenum chloride hydride nitrosyl complex, 429
molybdenum(II) acetate arylim-inoisoindoline complexes, 229
molybdenum(II,III,III) hydride iodide phosphine tetrahydro-furan complexes, 2145
molybdenum(III) azole halide thiocyanate complexes, 323
molybdenum(III,IV) acetate dithiophosphate oxo thio complexes, 2203
molybdenum(III,IV) thio water copper(II) complex, 2351
molybdenum(V) chloride diphosphine oxo complex, 1459
molybdenum(V) dithiolate thio copper(I) complex, 2743
nickel(II) alkoxide chloride aluminium complexes, 1733
nickel(II) aryl dithiocarbamate dithiocarbonate xanthate complexes, 2821
nickel(II) azole chloride pseudohalide pyridine pyrid-ine-*N*-oxide-dithio-carbazates, 2659
nickel(II) azole thiocyanate thioether complex, 1031
nickel(II) diamine dihydrazone

diimine complexes, 859
nickel(II) diimine pyridine Schiff base thiolate complexes, 1327
nickel(II) dithiocarbamate triamine complexes, 2025
nickel(II) halide pyridine thiocyanate complexes, 1759
nickel(II) ketoimine complexes, 1687
nickel(II) ketoimine pyridine thiolate complexes, 535
osmium(III) chloride phosphine quinone complex, 2511
palladium(II) chloride hydrazinium complex, 579
palladium(II) chloride phenoxide telluroether complexes, 2693
platinum(II) chloride hydrazinium complex, 579
platinum(II) diamine complexes, 2191
platinum(IV) diamine halide complexes, 2191
potassium crown ether - gold chloride complexes, 1025
pyridylcarbinol complexes, 2809
rhenium(II,III,III) chloride sulphate complex, 741
rhodium(III) hydride tin(II) complex, 1721
ruthenium halide hydroxyquinoline nitrosyl complexes, 583
ruthenium(II) ammonia crown ether pyridine complexes, 1139
ruthenium(II) ammonia cyanopyridine dipyridyl pyridine iron(II) complexes, 653
ruthenium(II) chloride hydrazide phosphine complexes, 2137
ruthenium(II) chloride pyrazine sulphoxide complex, 1699
ruthenium(II) diimine complexes, 1485
ruthenium(II,III) ammonia cyanopyridine dipyridyl pyridine iron(II) complexes, 653
ruthenium(III) aminophenoxide arsine halide hydroxyquinoline complexes, 2137
ruthenium(III) ammonia crown ether pyridine complexes, 1139
ruthenium(III) arsine chloride quinone complex, 2511
ruthenium(III) ascorbate chloride water complex, 2711
ruthenium(III) azole carbonyl chloride phenoxide Schiff base complexes, 2559
ruthenium(III) edta nucleoside complexes, 2465
sexadentate salicylaldimine thioether complexes, 823
terbium(IV) phosphate water complex, 1479
thallium halide porphyrins, 885
trifluoromethanesulphonates, 2757
tungsten(V) dithiolate thio copper(I) complex, 2743
tungsten(V) oxo thio xanthate complexes, 2235
tungsten(VI) bromide diphosphine seleno complexes, 1311
uranium(VI) carboxylate dioxo hydrazone phenoxide pyridine water zinc complexes, 779
vanadate hydrolysis, 249
Endothall complex
calcium, 1569
Enolate complexes
palladium(II), 1521
Enol ether complexes
silicon, 1173
Enthalpy of activation
absorption of methyl salicylate on clay minerals, 567
addition reactions, cobalt(I) carbonyl cyclopentadienyl and carbene precursor,725
alkene hydrogenation catalysed by Ru(II) complex, 2729
chromium(III) hydroxide water complexes interconversion, 619,1865
complexation, copper(II) acetate pyridine complexes, 793
complexation, ruthenium(III) ascorbate chloride water complex, 2711
complex dissociation, iron(II) - diimines, 703
fluxional behaviour, cadmium, zinc Schiff base thiolate complexes, 771
fluxional behaviour, iron(II) carbonyl hydride phosphite silyl complexes, 841
fluxional behaviour, rhenium(I) carbonyl halogen phosphino-thioether complexes, 1603
hydrolysis and ionization, fluorophosphorous acid, 1695
redox, carbonyls - O^-, 2487
redox, platinum(II) - platinum(IV) complexes, 2191
solvent extraction, potassium crown ether - gold chloride complexes ion pair, 1025
substitutions, cobalt(III) porphyrin water ccomplex, 1379
vanadate dimerization, 249
Enthalpy of formation
metal halides, 1433
uranium(VI) oxo phosphate complexes, 47
Enthalpy of vapourization
gold(III) chloride, 633
Entropy of activation
addition reactions, cobalt(I) carbonyl cyclopentadienyls and carbene precursor, 703
alkene hydrogenation catalysed by Ru(II) complex, 2729
chromium(III) hydroxide water complexes interconversion, 619,1865
complexation, copper(II) acetate pyridine complexes, 793
complexation, ruthenium(III) ascorbate chloride water complex, 2711
complex dissociation, iron(II) - diimines, 703
fluxional behaviour, cadmium,

zinc Schiff base thiolate complexes, 771
fluxional behaviour, iron(II) carbonyl hydride phosphite silyl complexes, 841
fluxional behaviour, rhenium(I) carbonyl halogen phosphino-thioether complexes, 1603
hydrolysis and ionization, fluorophosphorous acid, 1695
redox, platinum(II) - platinum(IV) complexes, 2191
substitutions, cobalt(III) porphyrin water complex, 1379
vanadate dimerization, 249
Entropy of formation
uranium(VI) oxo phosphate complexes, 47
Entropy of vapourization
gold(III) chloride, 633
Entwined complexes
cobalt(II) chloride phenanthroline, 811
Erbium
amidopyridine nitrate thiocyanate complexes, 2405
carboxylate water complexes, 1921
chloride hydrazone phenanthroline water complex, 1491
disulphoxide perchlorate complex, 629
hydrazone complexes, 2185
hydrazone water complex, 2779
lactam nitrate mercury complex, 1079
ESR spectra
boric acid catecholate oxidised complexes, 613
chromium carbonyl cyclopentadienyl dioxygen seleno complexes, 591
chromium(VI) - copper(II) irradiated mixture, 237
cobalt(II) acetate quinquepyridine complex, 1395
cobalt(II) diimine oxamide copper(II) complexes, 1787
cobalt(II) phenanthroline complex, 1803
cobalt(II) triphosphine triphosphorus complex, 2123
copper diiminate iodide complexes, 955
copper iodide tetraazaannulene complexes, 1911
copper(II) aminoalkylsalicyl-aldimine complexes, 1653
copper(II) azole carboxylate salicylaldimine complexes, 893
copper(II) bromide hexamine water binucleating complex, 941
copper(II) chloride diimine complexes, 2541
copper(II) chloride dimethyl-phosphite Ru(II) complex, 1091
copper(II) chloride dipyridylamine water complex, 495
copper(II) chloride phenoxide Schiff base complexes, 731
copper(II) chromate diimine complexes, 2179
copper(II) creatinine methoxide complexes, 1767
copper(II) dehydropeptide complexes, 2331
copper(II) diaminooxamide cobalt(II) complexes, 1787
copper(II) diimine pyridine Schiff base thiolate complexes, 1327
copper(II) ketoimine pyridine thiolate complexes, 535
copper(II) ketoxime complexes, 919
copper(II) sulphonates, 2757
copper(II) tetramine macrocyclic complexes, 523
iridium(IV) mesityl, 1457
iron halide phosphine seleno thio thiolate complexes, 203
iron sexadentate amine complex, 763
manganese(IV) dithiolate complex, 1803
molybdenum(III,IV) acetate dithiophosphate oxo thio complexes, 2203
nickel dithiolate - dithiapyr-anylidene complex, 687
nickel(III) dithiocarbamate triamine complexes, 2025
osmium(III) chloride phosphine quinone complex, 2511
polysilanes doped with AsF_5, 1227
rhodium(I,II) carboxylate chloride diimine complexes, 2551
rhodium(II) hydride phosphine complex, 2729
ruthenium(III) aminophenoxide arsine halide hydroxyquinoline complexes, 2137
ruthenium(III) arsine chloride quinone complex, 2511
ruthenium(III) azole carbonyl chloride phenoxide Schiff base complexes, 2559
ruthenium(III) chloride pyridylphosphonate zinc complexes, 2229
tungsten(V) chloride diphosphine complex, 595
Ester complexes
tin(IV), 1085
Ethane-1,2-dithiolates
molybdenum(V), tungsten(V), 2743
Ethanol complexes
bismuth(III), 2617
niobium(II,III), 2031
sodium, 2617
tantalum(II,III), 2031
tungsten(VI), 2617
Ethenyl complexes
ruthenium(II), 421
Ether complexes
astatine(I), 11
bismuth, 437
caesium, 221
calcium, 1565,1569
gadolinium, 1889
gallium(II), 95
lithium, 2699

magnesium, 2457
molybdenum(II,III,III), 2145
molybdenum(V), 2457
potassium, 2699
rhodium(III), 1611
rubidium, 221
sodium, 1877,2641
tungsten(V), 2089
tungsten(VI), 2417
yttrium, 1049
Ethoxides
aluminium, 1733
bismuth(III), 2617
cobalt(II), copper(II), 1733
lead(II), 1657
nickel(II), 1733
silicon, 1097
sodium, tungsten(VI), 2617
4-Ethoxycarbonylaminopyridine-*N*-oxide complexes, thorium, 2809
Ethyls
silicon, 1231
Ethylacetoacetate complexes
palladium(II), 1513
Ethylenediamine complexes
copper(II), 1773
europium, 1385
molybdenum(VI), 2057
nickel(II), 859
platinum(II),(IV), 2191
Ethylenediaminetetraacetates
ruthenium(III), 2465
Ethyldithiocarbamates
nickel(II), 2821
1-Ethylimidazole complexes
molybdenum(VI), 33
2-Ethylimidazole complexes
copper(II), 893
2-Ethyl-4-methylimidazole complexes, Cu(II), 893
Ethyl sulphide complexes
gallium(II), 95
4-Ethyl-2,6,7-trioxa-1-phosphabicyclo[2.2.2.]octane complexes
ruthenium(II), 2265
Ethyl xanthates
nickel(II), 2821
ruthenium(II), 1019
tungsten(V), 2235
Europium
acetate amine carbonate diamine diimine pyridine Schiff base macrocyclic complexes, 1385
amidopyridine nitrate perchlorate thiocyanate water complexes, 2405
chloride hydrazone phenanthroline water complexes, 1491
hydrazone complexes, 2185
EXAFS, sulphonates, 2757
Extended Hueckel calculations
iron carbonyl hydride phosphide heterometallic complexes, 2423
ruthenium(III) azole carbonyl chloride phenoxide Schiff base complexes, 2559

F

Feldspar glass, 55
Ferrocenes
alkyl silyl, 1741
book review, 1844
Ferrocenecarbonylhydrazone complexes, lanthanides, 1491
Fluorenone complexes
tungsten(V), 2089
Fluorenyl complexes
germanium, 1153
tungsten(IV), 459
Fluorenylidene complexes
germanium, 1153
Fluorescence spectra
europium amidopyridine nitrate perchlorate thiocyanate water complexes, 2405
lanthanide carboxylate water complexes, 1921
ruthenium(II) diimine complexes, 1485
Fluorides and fluoro complexes
boron, 2221
electrochemical synthesis, 2605
germanium, 1153
rhenium(V,VI), 2241
thallium(III), 885
2-Fluorobenzoate complexes
samarium, ytterbium, 1599
Fluorophosphorous acid, 1695
Fluxional behaviour
cadmium, zinc Schiff base thiolate complexes, 771
copper(I) diene diketonate complexes, 2293
iridium(III) chloride phosphine complexes, 1857
iron(II) carbonyl hydride phosphite silyl complexes, 841
platinum(IV) metallacyclic compounds, 1587
rhenium(I) carbonyl halogen phosphinothioether complexes, 1603
sodium crown amide ether complex, 1877
thallium(III) acetate porphyrin, 2069
Formate complexes
rhodium(I,II), 2551
Formation constants
aluminium polyphosphates, 1527
astatine(I) halide chelate complexes, 11
caesium crown complexes, 221
calcium carboxylate crown ether complexes, 1591
cobalt(III) ammonia molybdate complex, 2317
cobalt(III) diketonate phenol complexes, 1405
copper(II) dehydropeptide complexes, 2331
copper(II) halide complexes, 2529
copper(II) ketoxime complexes, 919
copper(II) pyridine thioether complexes, 1647
copper(II) tetramine complexes, 883
molybdenum(VI) doxycycline complexes, 455
nickel(II) ketoxime complexes, 919

phosphate anions, 2587
potassium carboxylate crown complexes, 1591
rubidium crown complexes, 221
sexidentate amine complexes, 409
sodium carboxylate crown complexes, 1591
thallium(III) methyl thiobarbiturate complexes, 517
tin(II),(IV) pyrophosphate complexes, 377
tin(IV) alkyl aryl iodide pyridine complex, 1085
tungsten(VI) doxycycline complexes, 455
uranium(VI) oxo phosphate complexes, 47
Free energy of activation
alkene hydrogenation catalysed by Ru(II) complex, 2729
alkylamide M - N bond rotation, 2839
complexation, ruthenium(III) ascorbate chloride water complex, 2711
fluxional behaviour, Cd, Zn Schiff base thiolate complexes, 771
fluxional behaviour, copper(I) diene diketonate complexes, 2293
fluxional behaviour, iridium(III) chloride phosphine complexes, 1857
fluxional behaviour, iron(II) carbonyl hydride phosphite silyl complexes, 841
fluxional behaviour, rhenium(I) carbonyl halogen phosphino-thioether complexes, 1603
fluxional behaviour, thallium(III) acetate porphyrin, 2069
hydrolysis, fluorophosphorous acid, 1695
hydrolysis, polyphosphate, 697
vanadate dimerization, 249
Free energy of formation
uranium(VI) oxo phosphate complexes, 47
Fuller's earth, 567

G

Gadolinium
amidopyridine nitrate perchlorate thiocyanate complexes, 2405
chloride hydrazone phenanthroline water complex, 1491
crown ether thiocyanate water complex, 1889
disulphoxide perchlorate complex, 629
hydrazone complexes, 2185
hydrazone water complexes, 2779
Gallium(II)
ether iodide phosphine thioether complexes, 95
Gallium(III)
alkyl amine arylamide complexes, 1897
bromide sulphonates, 2757
triamine complex, 1951
Gel filtration chromatography, ^{105}Rh complex incorporation into globulin, 1617
Germanium
alkoxide alkyl aryl carbene fluoride complexes, 1153
alkyl aryl oxo compounds and radicals, 2347
chalcogenide silylamide compounds, 1203
cluster structures, molecular orbitals, 1299
hydride propellanes, 1247
methyl metallacyclic compounds, 1221
Germenes, 1153
Germyls
molybdenum(II), 2519
tungsten(III), 1215
Glycine complexes
cobalt(III), 977
Glycine Schiff base complexes
copper(II), 893
Glycolates
osmium(VI), 61
Gold(I)
aryls, 145,160,167
phosphine iron(0) complex, 2423
Gold(III)
aryls, 145,160
bromide chloride phosphine complexes, 1929
chloride, 633
chloride complex, 1025
chloride diamine complexes, 19
chloride iminoether complexes, 1631
Guanosine complex
ruthenium(III), 2465

H

Hafnium
chloride cyclopentadienyl disylylmethyls, 1177
Halides, enthalpies of formation, 1433
Herbicide complexes
calcium, 1569
2,4-Hexadiene complexes
zirconium, 1
Hexafluoropentanedionates
copper(I), 645,2293
molybdenum(II), 605
Hexagonal bipyramidal complexes, interligand repulsions, 393
Hexamethylbenzene complexes
ruthenium(II), 1091
Hexamethylphosphoramide complexes
iron(II), 1163
Hexaphosphates
aluminium, 1527
HFS calculations
copper(II) tetramine macrocyclic complexes, 523

High temperature chemistry, book review, 2851
Holmium
  amidopyridine nitrate thiocyanate complexes, 2405
  chloride hydrazone phenanthroline water complexes, 1491
  disulphoxide perchlorate complex, 629
  hydrazone complexes, 2185,2779
HPLC
  ruthenium(II) chloride pyrazine sulphoxide complexes, 1699
  selenium(II) chloride thiochloride, 1037
Hydrazide complexes
  molybdenum(IV), 467
  ruthenium(II), 2137
Hydrazine, hydrazinecarboxylate complexes, iron(II), 483
Hydrazinium complexes
  Co, Cu, Fe, Ni, 365
  Pd(II), Pt(II), 579
Hydrazone complexes
  lanthanides, 1491,2185,2779
  manganese(II), 2477
  silver(I), 127
  uranium(VI), 779
Hydride complexes
  cobalt(II), 2123
  iron(0,I), 2423
  iron(II), 841
  molybdenum, 429,2145
  osmium, 1955
  platinum(II), 867,909
  rhodium(I), 543
  rhodium(II), 2729
  rhodium(III), 1721
  ruthenium, 1955
  ruthenium(II), 1019,1713
  silicon, 1173
  tungsten(II), 595
  tungsten(IV), 595,1007,2827
Hydrosilation, enantioselective of acetophenone, 1061
Hydrotrispyrazolylborates
  iridium(I), 1595
  tungsten(IV), 215
Hydroxamates
  silicon, 1131
Hydroxides and hydroxo complexes
  chromium(III), 619,2389
  cobalt(III), 107,2717
  copper(II), 1333,2301
  iron(III), 1121
  palladium(II), 1507
  platinum(II), 799,1473
  tin(IV), 509
  yttrium, 2171
Hydroxycarboxylates
  cobalt(III), 2495
  osmium(VI), 61
2-Hydroxyethanethiol complexes
  chromium(III), 2255
N-Hydroxyethylsalicylidene-imine complexes, Mo(VI), 33
Hydroxyketone complexes
  silicon, 1131
2-Hydroxynaphthaldehyde Schiff base complexes
  Cu, Ni, 1327
  Th, U, 2399
2-Hydroxy-1,4-naphthaquinone complexes, Mo,Os,Ru,U, 2511
8-Hydroxyquinoline complexes
  copper(II), 1791
  ruthenium, 583
  ruthenium(III), 2137
8-Hydroxyquinoline-*N*-oxide complexes, silicon, 1131

I

Imidazole complexes
  copper(II), 893
  molybdenum(III), 323
  molybdenum(VI), 33
  nickel(II), 1031,2659
  palladium(II), 1513
  ruthenium(III), 2559
  tungsten(II), 711
Iminodiacetate complexes
  vanadium(IV), 73
Iminoether complexes
  gold(III), 1631
  platinum(II),(IV), 1573
Iminyls
  silicon, 1147
Indenyl complexes
  tungsten(II), 1177
  tungsten(IV), 459
Indium
  bromide polysulphide complex, 1069
  triamine complex, 1951
Inosine complexes
  ruthenium(III), 2465
Iodides and iodo complexes
  cadmium, 2111
  copper, 955,1911
  gallium(II), 95
  iron, 203
  iron(II), 963
  mercury, 351,2611
  molybdenum(0), 2611
  molybdenum(II), 433
  molybdenum(II,III,III), 2145
  molybdenum(III), 1667
  nickel(II), 823,1759
  niobium(0), 389
  palladium(II), 2265
  platinum(II), 747,909,1443
  rhenium, 1903
  rhenium(I), 1603
  rhenium(II), 1873
  ruthenium(II), 963
  thorium, 2399
  tin(IV), 1085
  tungsten(II), 433
  uranium(VI), 2399
Iodoalkane complexes
  rhenium, 1903
2-Iodobenzoates
  lanthanides, 1599
Ion cyclotron resonance spectroscopy, carbonylate anions, 2487
Ion mobility
  astatine (I) halide chelate complexes, 11
Ion pairs
  potassium crown ether - gold chloride complexes, 1025

IR spectra
acyls, 1705
alcohol complexes, 1049,2031, 2065
alcohol solvate, 2045
alkenyl complexes, 421
alkoxides, 949,1733,2065,2309
alkyls, 1411,1465
alkylamides, 477
alkylammonium salt, 2057
alkyne complexes, 711,1427,2519
allyls, 459,605
amide complexes, 403,1683,1877, 2075,2265,2809
amidopyridine complexes, 2405
amine complexes, 243,477,823, 859,1653,1675,1897,2025,2309
aminoacid complexes, 333
aminophenoxides, 2137
ammines, 653,2075,2317
arylamides, 1897,2309
arylimides, 1539
azides, 1513,2659,2725
azole complexes, 323,711,1031, 1333,1767,2559
binuclear complexes, 997
binucleating hydroxyketone complexes, 1353
borohydride, 1827
bromides, 351,1311,1507,1579, 1939,2137,2265,2541
carbonyls, 133,187,215,267,389, 421,543,665,673,711,725,837, 877,963,1013,1019,1163,1177, 1319,1549,1595,1603,1663,1705, 1713,1717,1873,2095,2153,2265, 2423,2559,2611
carboxylates, 121,133,187,779, 1333,1599,1657,1723,1809,2273, 2283,2301,2523,2573
chlorides, 351,561,595,731,789, 949,997,1013,1019,1311,1507, 1573,1579,1631,1675,1699,1939, 2065,2089,2137,2217,2265,2337, 2457,2501,2511,2541,2559,2573, 2659,2683,2693
chromates, 2179
creatinine complexes, 1767
cyanides, 1013,2611
cyanotrihydroborate complexes, 79
cyclopentadienyls, 27,1847
diamine complexes, 1773,2057
diaminodisulphide complexes, 1319
diarylphosphates, 2771
diazenides, 1539
dicarboxylates, 61
diimine complexes, 653,859,1363, 2171,2179,2541
diketonates, 437,605,1683,1773, 2463
diselenide complexes, 1311
disulphide complexes, 997
disulphoxides, 629
dithiocarbamates, 421,1019,1513, 1817,2025,2821
dithiocarbazates, 37,1363,2659
dithiocarbonates, 2821
dithiolates, 1803,2813
dodecahydrododecaborates, 2779
edta complexes, 2465
ester complexes, 1085
ether complexes, 95,1049,2417, 2457
gallium(II) compounds, 95
hexafluorophosphates, 79,495
hydrates, 653,1507,1779,2301, 2779
hydrazide complexes, 467,2137
hydrazinium complexes, 365,579
hydrazone complexes, 127,779, 1491,2185,2477,2779
hydrides, 429,543,595,1019,1713, 2729
hydroxides, 1333,2171,2301
hydroxycarboxylates, 61
hydroxyketone complexes, 1353
imine complex, 2051
iminoether complexes, 1573,1631
iodides, 95,351,2265
isocyanide complexes, 267
ketoimine complexes, 535,1327, 1687
ketone complexes, 1779
maltol complexes, 1539
mercaptothiazolinate, 325
metallaboranes, 1663
methyl salicylate on clay minerals, 567
molybdates, 2317
nitrates, 683,1579,1675,1809, 2399,2405,2567,2809
nitrile complexes, 79,595,653, 1513,1717,2131,2241,2519
nitrogen - sulphur complexes, 2337
nitroimidazole complexes, 1333
nitrophenoxides, 27
nitrosophenoxides, 27
nitrosyls, 429,583,1013
nucleoside complexes, 2465
oxamide complexes, 103,1787
oxo complexes, 33,61,243,477, 753,819,973,997,1353,1683, 2057,2203,2235,2399,2417,2457, 2511,2567,2813
penicillin complexes, 1473
perchlorates, 103,629,1579,1675, 1809,1835,2025,2317,2399,2405, 2659
peroxo complexes, 819,973
phenol complex, 2683
phenoxides, 731,779,789,1653, 1847,2693
phosphine complexes, 543,673, 1411
phosphiniminates, 2241
phosphinoenolates, 1521
phosphinothiolate, 1019
phosphonates, 2229
phosphorus - selenium compound, 261
polyketones, 993
polysulphides, 1069,2501
pyrazine complexes, 1699
pyrimidinethione complexes, 1507
pyridine complexes, 535,653,683, 1579,1675,2089
pyridine-*N*-oxide complexes, 37, 1363,2651,2659,2809
pyridinethionates, 197
quinone complexes, 2511
quinquepyridine complexes, 1395
rhodanine complexes, 1465
saccharin complexes, 403

Schiff base, 2683
Schiff base complexes, 33,37, 683,731,819,823,859,973,1327, 1653,2399,2559,2785
siloxides, 1367,2699
sulphate, 649
sulphonates, 2241,2757
sulphoxide complexes, 1699,2075, 2567
telluroether complexes, 2693
tetraazaannulene complexes, 1911
tetracyanoethene complexes, 725
tetrafluorobrates, 1779
tetramine complexes, 523
tetrafluoroborates, 79
tetraimine complexes, 2785
tetraphenylphosphonium salt, 2501
thio complexes, 997,2203,2235, 2743,2813
thiocarbonyls, 1019
thiocarboxylates, 2095
thiocyanates, 323,1031,1809, 2399,2405,2463,2567,2611,2659, 2725,2809
thioether complexes, 95,823, 1031,1579
thiolates, 535,753,973,1327,2651
thione complexes, 351,935,1507
water complexes, 187,495,683, 1579,1675,1809,2171,2771
xanthates, 421,1019,2235,2821

Iridium(I)
alkene carbonyl diene hydropyrazolylborate tripyrazolylamine complexes, 1595

Iridium(III)
chloride phosphine complexes, 1857

Iridium(IV)
mesityl, 1457

Iron
halide phosphine seleno thio thiolate complexes, 203
organo compounds, book reviews, 1845,2086

Iron(-I)
carbonylate anions, 2487

Iron(0)
aryls, 154
carbonyl cyclopentadienyl bismuth complex, 123
carbonyl cyclopentadienyl tin complexes, 2105
carbonyl phosphide heterometallic complexes, 543,2423
carbonyl phosphide rhodium(I) complexes, 543
tetracarbonyl, fluxionality, 1587

Iron(0,I),(I)
carbonyl hydride phosphide complexes, 2423

Iron(II)
acyl aryl carbonyl cyclopentadienyl phosphine sulphinyl complexes, 717
alkanediyl alkene carbonyl cyclopentadienyl halide phosphine sulphinate complexes, 963
alkoxide carbonyl phosphine oxide silylene thiolate complexes, 1163
alkyl carbonyl cyclopentadienyl silyl complexes, 1177
arsine carbonyl cyclopentadienyl phosphine stibine thiocarboxylate complexes, 2095
aryls, 142,154,166
carbonyl hydride phosphite silyl complexes, 841
carboxylate hydrazine complex, 483
chloride hydrazinium water complex, 365
chloride sulphate tetraimine macrocyclic complexes, 2785
cyanide nitrile ruthenium(II) complex, 653
cyclopentadienyls, 483,1741
diarylphosphate methanol water complexes, 2771
diimine complexes, 703,1803
pyridylcarbinol complexes, 2791
sexidentate amine complexes, 409,763

Iron(II,III)
fluoride water complex, 2605

Iron(III)
aryls, 154
azide porphyrin complex, 373
chloride diazoleaminophenoxide methanol thiocyanate water complexes, 1809
cyclopentadienyls, 1741
fluoride complex, 2605
hydroxide hydroxyketone binucleating complexes, 1353
hydroxide oxide, 1121
pyridine-*N*-oxide thiolate, 2651
sexidentate amine complexes, 763
trifluoromethanesulphonate, 2757

Iron(IV)
dithiolate complexes, 1803

Isocyanide complexes
iron(II), 963
molybdenum(0), 267
rhodium(I), 2153
tungsten(0), 267

Isoleucine complexes
cobalt(III), 977

Isonicotinamide complexes
ruthenium(II), 1139

Isopolytungstate, 649

J

Jahn - Teller effect, permutational isomerism, 1587

K

Ketoimine complexes
cobalt(III), 1687
copper(II), 535,1687
nickel(II), 535,1687,2833

Ketone complexes
mercury, 351
tungsten(V), 2089

Ketoxime complexes
copper(II), nickel(II), 919

Kinetic studies
addition reactions, cobalt(I) carbonyl cyclopentadienyls and carbene precursor, 725
chromium(III) hydroxide water complexes interconversion, 619
complexation, cobalt(III) ammonia molybdate complex, 2317
complexation, copper(II) amino-(hydroxymethyl)pyridine hydroxyquinoline complexes, 1791
complexation, ruthenium(III) ascorbate chloride water complex, 2711
complex dissociation, iron(II) - diimines, 703
fluxional behaviour, cadmium, zinc Schiff base thiolate complexes, 771
fluxional behaviour, iron(II) carbonyl hydride phosphite silyl complexes, 841
fluxional behaviour, rhenium(I) carbonyl halogen phosphino-thioether complexes, 1603
fluxional behaviour, thallium(III) acetate porphyrin, 2069
hydrolysis, chromium(III) hydroxide water complexes, 1865,2389
hydrolysis, diketonates, 753
hydrolysis, polyphosphates, 697
isomerization, platinum(II) azole halide complexes, 1443
photochemistry, cobalt(III) hydroxide peroxide tetramine complexes, 107
photochemistry, germanoxanes, 2347
redox, carbonyls - O^-, 2487
redox, cobalt(III), ruthenium(II,III) - $Ti(C_2O_4)_2^-$, 829
redox, copper(II) pyridine thioether complex - ferrocene, 1647
redox, molybdenum(V) - solvated electron, 1459
redox, molybdenum(V) - vanadium(V) oxo complexes, 359
redox, ozone - terbium(III), 1479
redox, platinum(II) - platinum(IV) complexes, 2191
substitution, cobalt(III) chloride pentamine complex, 1449
substitution, cobalt(III) porphyrin water complex, 1379
substitution, molybdenum thio water heterometallic cubane complexes, 2351

L

Lactam complexes
erbium, mercury, 1079
Lactates
osmium(VI), 61
Lanthanides
amidopyridine nitrate perchlorate thiocyanate water complexes, 2405
aryls, 136,147,162
carboxylate chloride cyclopentadienyls, 1599
carboxylate water complexes, 1921
chloride hydrazone phenanthroline water complexes, 1491
cyclopentadienyl nitrophenoxide nitrosophenoxide complexes, 27
disulphoxide perchlorate complexes, 629
hydrazone complexes, 2185
hydrazone water complexes, 2779
nitrate sexadentate Schiff base water complexes, 683
Lanthanum
alcohol alkoxide complexes, 1049
alkoxide chloride zirconium compounds, 949
amidopyridine nitrate perchlorate thiocyanate water complex, 2405
chloride hydrazone phenanthroline water complex, 1491
disulphoxide perchlorate complex, 629
hydrazone water complex, 2779
nitrate sexadentate Schiff base water complex, 683
Lawsone complexes
Mo(VI), Os(III), Ru(III), U(VI), 2511
Lead
cluster structures, molecular orbitals, 1299
organo compounds, book review, 1963
Lead(II)
alcohol alkoxide carboxylate oxide compounds, 1657
alkoxides, 1103
sexidentate amine complex, 409
Leucine complexes
cobalt(III), 977
Ligand synthesis
aminophosphines, 501,2737
benzil Schiff base, 973
binucleating hydroxyketone, 1353
carboxylates, 2273
diaminopyridine, 1675
diazoleaminophenol, 1809
diphosphines, 1713,2381
N-fluoroarylethanediamines, 747
hydrazone, 2477
iminoether, 1631
ketoimine tetradentates, 2833
macrocyclic tetramines, 523
methoxyiminodiacetate, 73
phenol, 2683
phosphinoamines, 501,2737
phosphinoaminophenoxide, 243
salicylaldimine sexadentates, 823
salicylaldimine tetradentates, 819
tellurophenols, 2693
Lithium
alkoxides, 805
ether siloxide complexes, 2699

oxides in feldspar glass, 55
polyphosphates, 67
Lutetium
chloride hydrazone phenanthroline water complex, 1491
hydrazone complexes, 2185
phosphonate complex, 175

M

Macrocyclic complexes
cobalt(II), 1779,2785
cobalt(III), 1779
copper(II), 523,1373,2785
europium, 1385
iron(II), 2785
nickel(II), 103
Magnesium
chloride ether oxo molybdenum(V) complexes, 2457
terpyridyl complex, 1883
Magnetochemistry
binucleating hydroxyketone complexes, 1353
chromium(II) chloride diimine complexes, 2541
chromium(III) alkoxythiolate complex, 2255
cobalt(II) acetate quinquepyridine complex, 1395
cobalt(II) alkoxide chloride aluminium complexes, 1733
cobalt((II) azole carboxylate chloride complexes, 1333
cobalt(II) chloride phenanthroline entwined complexes, 811
cobalt(II) diimine oxamide copper(II) complexes, 1787
cobalt(II) diphosphine thiolate complexes, 553
cobalt(II) phenanthroline complex, 1803
cobalt(II) tetramine macrocyclic complexes, 1779
cobalt(II) triphosphine triphosphorus complex, 2123
copper diiminate iodide complexes, 955
copper iodide tetraazaannulene complexes, 1911
copper(II) alkoxide aluminium complexes, 1733
copper(II) amine halide salicylaldimine thioether complexes, 823
copper(II) amine oxamide nickel(II) complexes, 103
copper(II) aminoalkylsalicylaldimine complexes, 1653
copper(II) azole carboxylate halide hydroxide nitrate complexes, 1333
copper(II) bromide hexamine water binucleating complex, 941
copper(II) carboxylate dipyridyl halide hydroxide complexes, 2301
copper(II) chloride diimine complexes, 2541
copper(II) chloride phenoxide Schiff base complexes, 731
copper(II) creatinine methoxide complexes, 1767
copper(II) diamine nitrate complex, 2225
copper(II) diaminooxamide cobalt(II) complexs, 1787
copper(II) diaminopyridine halide nitrate water complexes, 1675
copper(II) diazoleaminophenoxide complexes, 1809
copper(II) diimine pyridine Schiff base thiolate complexes, 1327
copper(II) halide nitrate quinoline - thioeher water complexes, 1579
copper(II) ketoimine pyridine thiolate complexes, 535
copper(II) salicylaldiminate, 2051
copper(II) tetramine macrocyclic complexes, 523
hydrazinium complexes, 365
iron halide phosphine seleno thio thiolate complexes, 203
iron(II),(III) sexadentate amine complexes, 763
iron(IV) dithiolate complex, 1803
lanthanide amidopyridine nitrate perchlorate thiocyanate water complexes, 2405
lanthanide disulphoxide perchlorate complexes, 629
macrocyclic tetraimine complexes, 2785
manganese(IV) dithiolate complex, 1803
molybdenum(III) halide phosphine complexes, 1667
molybdenum(V) chloride ether oxo magnesium complexes, 2457
nickel(II) alkoxide chloride aluminium complexes, 1733
nickel(II) amine salicylaldimine thiocyanate thioether complexes, 823
nickel(II) azole thiocyanate thiether complex, 1031
nickel(II) diamine diimide oxamide tetramine copper(II) complexes, 103
nickel(II) dipyridylamine pseudohalide complexes, 2725
nickel(II) phenanthroline complex, 1803
nickel(II) pyridine-*N*-oxide-dithiocarbazates, 2659
ruthenium(III) azole carbonyl chloride phenoxide Schiff base complexes, 2559
ruthenium(III) chloride pyridylphosphonate zinc complexes, 2229
tungsten(II) acetonitrile aluminohydride chloride diphosphine hydride complexes, 595
tungsten(V) chloride diphosphine complex, 595
Malates

cobalt(III), 2495
Maleonitriledithiolates
molybdenum(V), 2813
Maltol complexes
rhenium(V),(VI), 1539
silicon, 1131
Mandelates
rhodium(I),(II), 2551
Manganese
coordination compounds, book review, 2086
Manganese(0)
carbonyl cyclopentadienyl complex, 2487
carbonyl diphosphinoferrocene complexes, 2437
Manganese(I)
acyl aryl carbonyl phosphine sulphinyl complexes, 717
Manganese(II)
aryls, 141,152,166
fluoride complex, 2605
hydrazone water complex, 2477
pyridine-*N*-oxide thiolate compounds, 2651
pyridylcarbinol complexes, 2791
quinazarine complexes, 1929
sexidentate amine complex, 409
Manganese(III)
aryls, 152
fluoride complex, 2605
Manganese(IV)
dithiolate complex, 1803
Mass spectra
aluminium alkoxide siloxides, 1639
binucleating hydroxyketone, 1353
cadmium mercaptothiazolates, 325
carbonylate anions, 2487
chromium(0) carbonyl diaminodisulphide complexes, 1319
cobalt(II) tetramine macrocyclic complexes, 1779
cobalt(III) pyridine tetramine macrocyclic complex, 1779
copper(II) diaminopyridine halide nitrate water complexes, 1675
copper(II) diarylphosphate, 2771
copper(II) diazoleaminophenoxide complexes, 1809
copper(II) salicylaldiminate, 2051
germanium alkoxide alkyl aryl carbene fluoride compounds, 1153
iron(II) aryl carbonyl cyclopentadienyl complexes, 717
iron(III) diazoleaminophenoxide complexes, 1809
lanthanide cyclopentadienyl nitrophenoxide nitrosophenoxide complexes, 27
lanthanum alcohol alkoxide complexes, 1049
lanthanum nitrate sexadentate Schiff base complex, 683
lead(II) alkoxide oxide compounds, 1657
lithium alkoxides, 805
magnesium terpyridyl complex, 1883
manganese(I) aryl carbonyl complexes, 717
mercury methyl phenyl rhodanine complexes, 1465
mercury thioether complex, 1545
molybdenum(0) carbonyl cycloheptatrienyl isocyanide complexes, 267
osmium(VI) hydroxycarboxylate oxalate oxo pyridine complexes, 61
palladium(II) phosphinoenolate, 1521
phosphorus - selenium cyclic compound, 261
rhenium(I) aryl carbonyl complexes, 717
ruthenium halide hydroxyquinoline nitrosyl complexes, 583
ruthenium(II) cyclopentadienyl diphosphine hydride complex, 1713
ruthenium(III) acetate oxo phosphine complex, 113
selenium - phosphorus cyclic compound, 261
selenium(II) chloride thiochloride, 1037
silicon tris-bidentate complexes, 1131
siloxanes, 1097
thallium methyl phenyl rhodanine complexes, 1465
tungsten(0) carbonyl cycloheptatrienyl isocyanide complexes, 267
yttrium alcohol alkoxide ether pyridine complexes, 1049
Mercaptoamine complexes
cadmium, 325
Mercury
alkoxide chloride telluroether complexes, 2065
carboxylate molybdenum(II) complexes, 133
chloride phenoxide phosphine telluroether complexes, 2693
cyanide phenyl thiocyanate ruthenium complexes, 1013
halide ketone thione complexes, 351
halide pseudohalide molybdenum(0) complexes, 2611
lactam erbium complex, 1079
methyl phenyl rhodanine complexes, 1465
phenyl trifluoroacetate rhodium(III) complexes, 187
thio complex, 41
thioether complex, 1539
Mesityls
germanium, 1153
iridium(IV), 1457
molybdenum(VI), 463
palladium(II), 2037
Mesitylphosphido complexes
rhenium(VII), 2241
Metallaboranes
molybdenum, tungsten, 1663
Metallacycles
germanium, 1221
tin(IV), 1203,1497
Methacrylates

copper(II), 1893
Methacrylonitrile complexes
B,Sb,Sn,Ti, 2131
Methanethiolates
palladium(II), 1343
Methanol complexes
cadmium, 2111
Co(II), Cu(II), Fe(II), 2771
Nb, Ta(II,III), 2031
Methoxides
copper(II), 1767
germanium, 1153
silicon, 1097
2-Methoxybenzoates
samarium, ytterbium, 1599
Methoxydimethylsilyls
molybdenum(IV), 1189
2-Methoxyethanol complexes
Bi, Mo(III), Na, W(VI), 2617
2-Methoxyethoxides
bismuth, 437,2617
Mo(VI), Na, W(VI), 2617
N-Methoxyiminodiacetate complexes
vanadium(IV), 73
3-Methoxy-3-methyl-2-butanone
oxime complexes, Rh(III), 1611
4-Methoxyphenoxides
arsenic(V), 789
Methyls
germanium, 1221,2347
mercury, 1465
molybdenum(II), 1705
phosphorus, 261
silicon, 1097,1227,1231
thallium(III), 517,1465
tin(IV), 1497,2683
tungsten(II), 1177
Methylamine complexes
cobalt(III), 2075
2-Methylbenzimidazole complexes
molybdenum(III), 323
Methylcyclopentadienyl complexes
iron(II), 963
manganese(0), 2487
niobium(III), 1075
tungsten(III), 459
zirconium, 2341
2-(3-Methyl-3,6-diazaheptyl)pyridine complexes, copper(II), 1675
Methyldiphenylphosphine complexes
iridium(III), 1857
iron(II), 963
manganese(I), 717
molybdenum(II), 665
molybdenum(IV), 467
platinum(II), 1411
ruthenium(II), 963
Methylethylenediamine complexes
molybdenum(II), 2573
platinum(II),(IV), 2191
Methylfluorenyls
germanium, 1153
1-Methylimidazole complexes
copper(II), 893
2-Methylimidazole complexes
copper(II), 893
molybdenum(III), 323
molybdenum(VI), 33
ruthenium(III), 2559
tungsten(II), 711
4-Methylimidazole complexes
tungsten(II), 711
Methylisocyanide complexes
iron(II), 963
molybdenum(0), 267
tungsten(0), 267
N-Methylmorpholine complexes
gallium(II), 95
2-Methylpent-4-enoates
molybdenum(II), 2283
4-Methylphenanthroline complexes
iron(II), 703
Methylphosphido complexes
osmium, 1955
2-Methylpropenoates
molybdenum(II), 2273,2283
ruthenium(II,III), 2273
1-Methyl-4-*i*-propylbenzene
complexes, ruthenium(II), 1727
6-Methylpyridine-2-thione
complexes, ruthenium(II), 837
N-Methylsalicylaldimine complexes
palladium(II), 1513
Methyl salicylate, absorption by
clays, 567
Methyl sulphide complexes
gallium(II), 95
(2-Methylthiophenyl)diphenylphosphine complexes
rhenium(I), 1603
Methylxanthate complexes
nickel(II), 2821
Metiamide complexes
nickel(II), 1031
Metronidazole complexes
platinum(II), 1443
Moessbauer spectra
ferrocenes, 1741
iron carbonyl hydride phosphide hetyerometallic complexes, 2423
iron halide phosphine seleno thio thiolate complexes, 203
iron(II),(III) sexadentate amine complexes, 763
iron(III) hydroxide hydroxyketone binucleating complexes, 1353
Molecular mechanics
copper dithiolene complex, 2377
copper(II) four coordination, 2079
Molecular orbitals
cluster compounds, group 14, 1299
copper(II) tetramine macrocyclic complexes, 523
iron carbonyl hydride phosphide heterometallic complexes, 2423
molybdenum(IV) chloride oxo thio trinuclear complexes, 2799
nickel(II) halide pyridine thiocyanate complexes, 1759
propellanes, 1247
ruthenium(III) azole carbonyl chloride phenoxide Schiff base complexes, 2559
silanes, 1265,1285
Molybdates
cobalt(III), 2317
Molybdenum
carbonyl phosphine polyhedral borane complex, 1663
chloride hydride nitrosyl complex, 429
Molybdenum(0)
carbonyl cycloheptatrienyl

isocyanide complexes, 267
carbonyl cyclopentadienyl bismuth complex, 123
carbonyl diimine diphosphine halide pseudohalide mercury complexes, 2611
carbonyl diphosphine complexes, 2381
carbonyl diphosphine thioether complexes, 1549
Molybdenum(II)
acetate aryliminoisoindoline complexes, 229
acetate diamine complexes, 2573
acetonitrile carbonyl diketonate iodide phosphine complexes, 433
acetyl carbonyl cyclopentadienyl methyl phosphine complexes, 1705
acyl carbonyl cyclopentadienyl complexes, 717
alkyne carbonyl chloride diimine germyl nitrile phosphine complexes, 2519
allyl diketonates, 605
aluminohydride diphosphine hydride complex, 595
arsine bismuthine carbonyl cyclopentadienyl diphosphine stibine complexes, 665
aryls, 151,165
bromide carboxylate nitrile complexes, 2283
carbonyl chloride nitrile phosphine tin(IV) complexes, 1717
carbonyl cyclopentadienyl mercury complexes, 133
carboxylates, 2273
Molybdenum(II,III,III)
hydride iodide phosphine tetrahydrofuran complexes, 2145
Molybdenum(III)
alkoxide alkylamide siloxide compounds, 2839
alkoxide amine arylamide complexes, 2309
azole halide thiocyanate complexes, 323
halide phosphine complexes, 1667
Molybdenum(III,IV)
acetate dithiophosphate oxo thio complexes, 2203
thio water copper(II) complex, 2351
Molybdenum(IV)
aryls, 139,151
chloride oxo thio trinuclear complexes, 2799
diphosphinoether hydrazide phosphine complexes, 467
Molybdenum(V)
chloride diimine dithiolate oxo thio complexes, 2813
chloride diphosphine oxo complex, 1459
chloride ether oxo magnesium complexes, 2457
cyclopentadienyl hydride silyl compounds, 1189
disulphide halide oxo thio complexes, 997
dithiolate thio copper(I) complex, 2743
oxo complexes, 359
Molybdenum(VI)
alcohol alkoxide oxo complexes, 2617
alkyl chloride mesityl oxo complexes, 463
azole oxo salicylaldimine complex, 33
dithiocarbamate seleno complex, 1311
doxycycline oxo complexes, 455
ethylenediamine oxo complex, 2057
oxo peroxide salicylaldimine complexes, 819
oxo peroxide Schiff base thiolate complexes, 973
oxo quinone complexes, 2511
Montmorillonites, 567,2729
Morpholine complexes
gallium(II), 95
Morpholinedithiocarbamate complexes, nickel(II), 2821

N

Naphthaldehyde Schiff base complexes, ruthenium(III), 2559
α-Naphthoxy compounds
zirconium, 2341
Neodymium
alcohol alkoxide oxo complexes, 1559
amidopyridine nitrate perchlorate thiocyanate water complexes, 2405
carboxylate water complexes, 1921
chloride hydrazone phenanthroline water complexes, 1491
cyclopentadienyl nitrophenoxide nitrosophenoxide complex, 27
disulphoxide perchlorate complex, 629
hydrazone complexes, 2185
sexadentate Schiff base water complex, 683
Nickel
dithiolate - dithiapyranylidene complex, 687
Nickel(0)
carbonyl chlorophosphine complexes, 2423
Nickel(II)
alkoxide chloride aluminium complexes, 1733
amine halide salicylaldimine thiocyanate thioether polydentate complexes, 823
aryls, 144,157
aryl dithiocarbamate dithiocarbonate xanthate complexes, 2821
azole chloride pseudohalide pyridine pyridine-*N*-oxide-dithiocarbazates, 2659
azole thiocyanate thioether complex, 1031

chloride diphosphine complex, 415
chloride hydrazinium water complex, 365
diamine dihydrazone diimine complexes, 859
diamine diimine oxamide tetramine Cu(II) complexes, 103
diimine pyridine Schiff base thiolate complexes, 1327
dipyridylamine pseudohalide complexes, 2725
dithiocarbamate triamine complexes, 2025
fluoride complex, 2605
halide pyridine thiocyanate complexes, 1759
hydroxyketone binucleating complexes, 1353
ketoimine complexes, 1687,2833
ketoimine pyridine thiolate complexes, 535
ketoxime complexes, 919
phenanthroline complex, 1803
pyridine pyridine-*N*-oxide-dithiocarbazate complex, 37
pyridine-*N*-oxide thiolate compound, 2651
pyridylcarbinol complexes, 2791
Schiff base thionate complexes, 179
sulphonates, 2757

Nickel(III)
dithiocarbamate triamine complexes, 2025

Niobium
aryls, 148

Niobium(-I)
carbonyl cycloheptatriene diene diphosphine phosphine complexes, 389

Niobium(0)
cycloheptatriene cyclopentadienyl iodide phosphine complexes, 389

Niobium(I)
bromide cycloheptatriene cyclopentadienyl complex, 389

Niobium(II)
chloride cycloheptatriene phosphine complex, 389

Niobium(II,III)
alcohol halide complexes, 2031

Niobium(III)
allyl cyclopentadienyl complex, 1075

Niobium(V)
alkylimide chloride pyridine complex, 1959
fluoride oxo complexes, 2605

Nitrates and nitrato complexes
copper(II), 1333,1579,1625,1675, 2225
erbium, 1079
lanthanides, 683,2405
silver(I), 1723,2687
thorium, 2399,2567,2809
uranium(VI), 2399,2567

Nitric oxide, oxidation of, 429

Nitride complexes
ruthenium, 311

Nitriles, alcoholysis, 1631

Nitrile complexes
antimony(V), boron, 2131
copper(I), 347
iron(II), 653
molybdenum(II), 433,1717,2283, 2519
palladium(II), 1513
rhenium(I,II),(II), 79
rhenium(V), 2241
ruthenium, 286
ruthenium(II,III), 653
tin(IV), titanium(IV), 2131
tungsten(II), 433,595,1717

Nitrite complexes
cobalt(III), 977
ruthenium, 1799

Nitrogen donor complexes
ruthenium clusters, 277

Nitrogen - selenium compounds, review, 2353

Nitrogen - sulphur ligand complexes, Pd(II), 2337

Nitrogen - tellurium compounds, review, 2353

3-Nitro-2,4-pentanedionates
copper(II), 1773

5-Nitrophenanthroline complexes
cobalt(II), 1787
iron(II), 703

2-Nitrophenoxides
lanthanides, 27
titanium, 1847

3-Nitrophenoxides
titanium, 1847

4-Nitrophenoxides
arsenic(V), 789
titanium, 1847

Nitrosophenoxides
lanthanides, 27

Nitrosyls
molybdenum, 429
rhenium, 1903
ruthenium, 309,583,1013,1799

NMR (^{1}H) spectra
acyls, 717,963
alcohol complexes, 337,1049
alkene complexes, 963
alkenediyl complexes, 561
alkenyl complexes, 421
alkoxides, 337,477,805,949,1049, 1153,1163,1173,1639,2065,2309
alkyls, 1147,1153,1411,1465,1897
alkylamides, 747,1215,2839
alkylidene complexes, 215
alkylidyne complexes, 215
alkylimides, 477,1423,2241
alkyne complexes, 711,2519,2523
allyls, 459,605,1075
aluminohydrides, 595
amide complexes, 1683,2075,2265
amidopyridine complexes, 2405
amine complexes, 859,977,1385, 1617,1897,2309
aminoacid complexes, 333,977
aminopyridine complexes, 1727
ammonia complexes, 2075,2495
arene complexes, 1727
arsine complexes, 2095,2523
aryls, 717,789,1153,1173,1513, 2037
arylamides, 747,1897,2241,2309
azole complexes, 33,711
binucleating hydroxyketone ligand, 1353

borane polyhderal anions, 2779
borohydrides, 1827
carbaboranes, 1497
carbaborane complex, 471
carbene complexes, 1153
carboxylates, 79,113,121,1173, 2069,2203,2283,2523
crown ligand complexes, 1545, 1877
cyanotrihydroborates, 79
cycloheptatrienyl complexes, 267
cyclometallated complexes, 255, 1203,1497,1513
cyclopentadienyls, 459,717,963, 1173,1847,1873,1903,2095,2105, 2483
diamine complexes, 1385
diaminodisulphide complexes, 1319
diboracyclohexadienes, 1497
diene complexes, 1595,2293
diimine complexes, 197,255,769, 859,1385,1491
diketonates, 121,605,1683,2293, 2463
diphosphine complexes,79,737, 867,1411,1549,1713
dithiocarbamates, 711,1311,2821
dithiophosphates, 2203
edta complexes, 2465
enol ether complexes, 1173
ether complexes, 1611,2417,2699
germyls, 1215
hydrazide complexes, 467
hydrazone complexes, 127,779, 1491,2185
hydrides, 543,595,867,1173,1189, 1713,1955,2123,2145,2729
hydroxycarboxylates, 2495
iminoether complexes, 1573,1631
iminyls, 1147
iodoalkane, 1903
isocyanide complexes, 267,963
ketoimine complexes, 535,1687
macrocyclic tetramine complexes, 1779
maltol complexes, 1539
metallaboranes, 1663
nitrile complexes, 347,595,2131, 2283
nucleoside complexes, 2465
oxime complexes, 1611,1617
penicillin complexes, 1473
phenol complexes, 1405,2683
phenoxides, 789,1847,2693
phosphido complexes, 1955,2423
phosphine complexes, 89,113,187, 467,477,543,851,963,1173,1411, 1663,1667,1857,1903,1955,2095, 2423,2483,2523
phosphine oxide complexes, 1163
phosphinoamines, 501
phosphinoenolate, 1521
phosphinothioether complexes, 1603
phosphonates, 2229
polyketones, 993
polyphosphine complexes, 1827
porphyrins, 509,885,2069
pyrazine complexes, 1699
pyrazolylamine complexes, 1595
pyrazolylborates, 215
pyridine complexes, 127,535,683, 747,769,977,1385,1727,1779
pyridine-*N*-oxide complexes, 2651
pyridinethionates, 197,837
pyridylhydrazone complexes, 2483
pyrimidinethione complexes, 1507
quinone complexes, 2511
rhodanine complexes, 1465
salicylaldimine complexes, 33
Schiff base complexes, 33,683, 771,859,1513,2833
siloxides, 1639,2699
silyls, 867,1189
silylamide complexes, 769,1203
silylene complexes, 1163
stannyl complexes, 2535
sulphinates, 963
sulphoxide complexes, 1699,2075
telluroether complexes, 2065, 2693
terpyridine complex, 1883
thiocarboxylates, 2095
thioether complexes, 561,977
thiolates, 89,535,771,851,1163, 2651
thione complexes, 351,935,1507
thiophenoxides, 851
triphosphine complexes, 2123
xanthates, 2821
ylide complexes, 1189
NMR (^{7}Li) spectra
lithium alkoxides, 805
NMR (^{11}B) spectra
boric acid catecholate complexes, 613
boron diimine fluoride complex, 2221
carbaboranes, 1497
carbaborane complex, 471
cyanotrihydroborate, 79
metallaboranes, 1663
NMR (^{13}C) spectra
acyls, 963
alcohol complexes, 337
alkene complexes, 963
alkenediyl complexes, 561
alkoxides, 337,805,949,1049, 1153,2065
alkyls, 1,1147,1153,1411,1465
alkylamides, 477
alkylidene complexes, 215
alkylidyne complexes, 215
alkylimides, 477
alkyne complexes, 711,1427,2519
allyls, 605,1075
amidate complexes, 463
amide complexes, 2265
amine complexes, 477,977
aminoacid complexes, 333,977, 2717
aminophosphine, 2737
arsine complexes, 2539
aryls, 463,717,1013,1153
azole complexes, 711
carbaboranes, 1497
carbene complexes, 1153
carbide carbonyl clusters, 1749
carbonyls, 267,433,665,711,717, 841,963,1749,1873,2105,2265, 2381
carboxylates, 113,2069
crown ligand complexes, 1545, 1877
cyanides, 1013

cycloheptatrienyls, 267
cyclometallated compounds, 255
cyclopentadienyls, 1,963,1075, 1903
diene complexes, 2293
diimine complexes, 197,255
diketonates, 605,2293,2463
diphosphine complexes, 1411, 1713,2381
dithiocarbamates, 711
edta complexes, 2465
ether complexes, 2417,2699
hydroxycarboxylates, 61,2495
hydroxyquinoline complexes, 583
iminyls, 1147
iodoalkane complexes, 1903
isocyanide complexes, 267,963
metallacycles, 1203,1497
methyl salicylate on clay minerals, 567
nucleoside complexes, 2465
penicillin complexes, 1473
phenol complex, 2683
phosphine complexes, 113,963, 1013,1411,1903,2535
phosphinoamines, 501
phosphinoenolate complexes 1521
phosphite complexes, 841
phosphonates, 2229
polyketones, 993
polyphosphine complexes, 1827
porphyrins, 2069
pyrazolylborates, 215
pyridine complexes, 977
pyridinethionate complexes, 197
pyridylcarbinol complexes, 2791
quinone complexes, 2511
rhodanine complexes, 1465
Schiff base, 2683
Schiff base complexes, 771,1327, 2833
siloxides, 2699
silyls, 841
silylamides, 769,1203
stannyl complexes, 2535
sulphinate complexes, 963
telluroether complexes, 2065
thioether complexes, 561,977
thiolates, 771
thione complexes, 351
NMR (^{15}N) spectra
nitride centred clusters, 1749
NMR (^{19}F) spectra
alkylamides, 747
allyls, 605
arylamides, 747
diketonates, 605
fluoroboron complexes, 2221
pentafluorophenyls, 2821
NMR (^{23}Na) spectra
feldspar glasses, 55
sodium crown amide ether complex, 1877
NMR (^{27}Al) spectra
aluminium alkoxide siloxides, 1639
aluminium polyphosphates, 1527
aluminohydrides, 595
feldspar glasses, 55
NMR (^{29}Si) spectra
feldspar glasses, 55
silicon diketonate thiocyanate, 2463
silicon tris- bidentate complexes, 1131
siloxanes, 1097
silyls, silylalkyls, 1177
silylene complexes, 1163
NMR (^{31}P) spectra
arsinophosphine complexes, 2153
diphosphazene complexes, 881
diphosphine complexes, 79,595, 737,899,909,1311,1411,1549, 1713,2153,2381,2611
diphosphinoether complexes, 467
hexachlorophosphate, 2217
phosphates, phosphinates, 659
phosphido complexes, 2241,2423
phosphine complexes, 89,113,187, 347,421,467,477,851,1013,1019, 1173,1411,1539,1663,1717,1857, 1903,1939,2145,2265,2423,2437, 2471,2519,2535,2641
phosphine oxide, 2437
phosphine oxide complexes, 2471
phosphine selenide, - sulphide complexes,2471
phosphinoamines, 501
phosphinoenolate complexes, 1521
phosphinothioether complexes, 1549,1603,2523
phosphinothiolate complexes, 1019
phosphites, 659
phosphite complexes, 1717
phosphonates, 2229
phosphorus methyl selenium cyclic compound, 261
phosphorus tricyanide, 1831
polyphosphates, 1527
polyphosphine complexes, 1827
triphosphine complexes, 2123
triphosphorus complexes, 2123
ylide complexes, 1189
NMR (^{63}Cu) spectra
copper(I) pyrazine complex, 1835
NMR (^{77}Se) spectra
diphosphine selenides, 2381
phosphine selenide complexes, 2471
polyselenides, 2629
selenium(II) chloride thiochloride, 1037
NMR (^{89}Y) spectra
yttrium alkoxides, 1049
NMR (^{93}Nb) spectra
niobium(III) allyl cyclopentadienyl complex, 1075
NMR (^{95}Mo) spectra
molybdenum(0) carbonyl diphosphine complexes, 2381
molybdenum(II) arsine bismuthine carbonyl cyclopentadienyl diphosphine stibine complexes, 665
NMR (^{113}Cd) spectra
cadmium dithiocarbamate mercaptoamine thioether complexes, 325
NMR (^{119}Sn) spectra
stannyl complexes, 2535
tin(II) chloride rhodium(III) complex, 1721
tin(II) cyclopentadienyl silylamides, 1203

tin(IV) chalcogenide silylamide metallacyclic compounds, 1203
tin(IV) chloride iron(0) compounds, 2105
tin(IV) halide methyl metallacyclic compounds, 1497
NMR (^{133}Cs) spectra
caesium crown ether complexes, 221
NMR (^{183}W) spectra
tungsten(0) carbonyl diphosphine complexes, 2381
NMR (^{195}Pt) spectra
platinum(II) ammonia creatinine hydroxide complexes, 799
platinum(II) azole halide complexes, 1443
platinum(II) phosphine phosphine - chalcogenide complexes, 2471
NMR (^{205}Tl) spectra
thallium methyl rhodanine complex, 1465
NMR(^{207}Pb) spectra
lead(II) alcohol alkoxide carboxylate oxide compounds, 1657
Noble gas chemistry, book review, 2851
Nomenclature, book review, 1843
Nucleoside complexes
ruthenium(III), 2465

Q

Octaethylporphyrinates, octamethylporphyrinates, Tl(III), 885
Organoiron compounds, book reviews, 1844,2086
Organolead compounds, book review, 1963
Organometallic compounds in organic synthesis, book review, 2084
Organometallic radicals, book review, 1845
Organosilanes, dehydrocoupling, 1239
Osmium
carbonyl diphosphazene complex, 881
carbonyl hydride phosphide phosphine complexes, 1955
Osmium(III)
chloride phosphine quinone complex, 2511
Osmium(IV)
aryls, 142
Osmium(VI)
hydroxycarboxylate oxalate oxo pyridine complexes, 61
Oxalate complexes
chromium(III), 2673
cobalt(III), 829,2665
osmium(VI), 61
rhodium(I,II), 2551
titanium(III), 829
Oxamide complexes
cobalt(II), 1787
copper(II), 103,1787
nickel(II), 103
Oxides and oxo complexes
chromium(VI), 753
germanium, 2347
iron(III), 1121
lead(II), 1657
magnesium, 2457
molybdenum(III,IV), 2203
molybdenum(IV), 2799
molybdenum(V), 359,997,1459, 2457,2813
molybdenum(VI), 33,455,463,819, 2057,2511,2617
neodymium, 1559
niobium(V), 2605
osmium(VI), 61
rhenium(V), 243
rhenium(VII), 2241,2647
ruthenium(III), 113
tungsten(V), 997,2235
tungsten(VI), 455,477,649,819, 2417,2617
uranium(VI), 47,779,819,1683, 2399,2511,2567
vanadium(IV), 73,2605
vanadium(V), 359
Oxime complexes
rhodium(III), 1611,1617
Oxoisobutyrates
osmium(VI), 61

P

Paeonol complexes
copper(II), 2051
Palladium
carbonyl phosphine complexes in zeolite, 673
Palladium(0)
phosphine complex, 2475
Palladium(I)
alkyne carboxylate phosphino-thioether complexes, 2523
chloride thioether complexes, 561
Palladium(II)
alkenediyl chloride thioether complexes, 561
alkoxide chloride telluroether complexes, 2065
amine chloride phosphinoenolate cyclometallated complexes, 1521
aminoacid complex, 333
aryls, 145,157,166
aryl azide azole chloride diimine diketonate dithiocarbamate nitrile perchlorate pyridine salicylaldimine Schiff base cyclometallated complexes, 1513
aryl carboxylate dipyridyl thioether complexes, 2037
chloride diphosphine complex, 415
chloride hydrazinium complex, 579
chloride nitrogen - sulphur complexes, 2337
chloride phenoxide telluroether complexes, 2693

chloride phosphine thiolate complexes, 89,1343
halide hydroxide pyrimidine-thione complexes, 1507
halide phosphine pyridine selenoamide complexes, 2265
Paracyclophane complexes
ruthenium(II), 1727
PE spectra
lanthanide carboxylates, 1599
Penicillin complexes
platinum(II), 1473
Pentafluorophenyls
nickel(II), 2821
Pentaiodides
copper, 1911
Pentamethylcyclopentadienyl complexes
iron(II), 963,1177
rhenium(I),(II), 1873
rhenium(III), 877
ruthenium(II),(IV), 1173
Pentamethyldisilylmethyls
Fe(II),Hf,Ti,W(II),Zr, 1177
Pentamethylene sulphoxide complexes, Th(IV), U(VI), 2567
2,4-Pentanedionates
cobalt(III), 1405
copper(I), 645,2293
molybdenum(II), 433,605
palladium(II), 1513
silicon, 1131,2463
tungsten(II), 433
zinc, 121
2,4-Pentanedionate Schiff base complexes, Cu,Ni, 1687
Pentasulphide complexes
platinum(IV), 2501
Penta(trifluoroacetato)cyclopentadienyls, molybdenum(II), 133
Perchlorate complexes
copper(I), 347
lanthanides, 629,2405
palladium(II), 1513
Permethylpolyazine complexes
nickel(II), 859
Permutational isomerism, Jahn - Teller effect, 1587
Peroxo complexes
cobalt(III), 107
molybdenum(VI), thorium, 819,973
tungsten(VI), 649,819,973
uranium(VI), 819,973
zinc, 819
Phase transfer catalysis, Pd(0), Pt(0) phosphine complex synthesis, 2475
1,10-Phenanthroline complexes
boron, 2221
cadmium, 197
cobalt(II), 811,1787,1803
copper(II), 1327,1363,2179
europium, 1385
iron(II), 703,1803
lanthanides, 1385,1491
molybdenum(0), 2611
nickel(II), 103,1327,1803
rhodium(I,II), 2551
yttrium, 2171
zinc, 197,1803
Phenol complexes
Co(III) diketonate, 1405
tin(IV), 2683
Phenoxides
arsenic(V), 789
copper(II), 731,1653,1809
iron(III), 1809
rhenium(V), 243
ruthenium(III), 2559
titanium(IV), 1847
uranium(VI), 779
Phenyls
arsenic(V), 789
germanium, 2347
mercury, 187,1013,1465
platinum(II), 909
review, 135
rhodium(III), 187
silicon, 1231
thallium(III), 1465
tin(IV), 1085
Phenylalanine Schiff base complexes, copper(II), 2163
Phenylamido complexes
gallium, 1897
Mo(II), W(III), 2309
2-Phenylazopyridine complexes
ruthenium, 1799
1-Phenyl-1,3-butanedionates
molybdenum(II), 433
tungsten(II), 433
1-Phenyl-1,3-butanedione Schiff base complexes
cobalt(III), 1687
Cu(II), Ni(II), 1327,1687
1-Phenyldibenzophosphole complexes
gold(III), 1939
1-Phenyl-3,4-dimethylphosphole complexes, gold(III), 1939
Phenylene complexes
Fe(II), Mn(I), Re(I), 717
o-Phenylenediimine complexes
copper, 955
Phenylethenyl complexes
ruthenium(II), 421
2-Phenylethylamine Schiff base complexes, Co(III), Cu(II), Ni(II), 1687
Phenylethynyl complexes
platinum(II), 2153
2-Phenylimidazole complexes
copper(II), 893
Phenylimido complexes
rhenium(VI), 1539
Phenyl isocyanate, reaction with molybdenum(VI) complexes, 463
1-Phenyl-1,2-propanedione-2-oxime complexes, Cu(II), Ni(II), 919
2-Phenylpropionate complexes
palladium(I), 2523
Phenyl(2-pyridyl)amides
potassium, sodium, 1839
Phosphates and phosphato complexes
aluminium, 659,1527
lithium, 67
sodium, 67,2587
terbium(IV), 1479
uranium(VI), 47
Phosphido complexes
iron, 543,2423
osmium, 1955
rhenium(VII), 2241
rhodium(I), 543
ruthenium, 1955
Phosphinate complexes
aluminium, 659

Phosphine (PH_3) complexes
osmium(0), 1955
Phosphine (PR_3) complexes
chromium(0),(I), 1427
cobalt, 927
cobalt(I), 717,2535
copper(I), 347,471,645,935,2423, 2743
gallium(II), 95
gold(I), 2423
gold(III), 1939
iridium(III), 1857
iron, 203
iron(II), 717,963,2095
manganese(0), 2437
manganese(I), 717
molybdenum, 1663
molybdenum(II), 433,1705,1717, 2519
molybdenum(II,III,III), 2145
molybdenum(III), 1667
molybdenum(IV), 467
niobium(-I),(0),(II), 389
palladium, 673
palladium(0), 2475
palladium(II), 89,1343,2265
platinum(0), 2475
platinum(II), 851,1411,2153, 2471,2737
rhenium, 1903
rhenium(0), 2437
rhenium(I), 1603,1873
rhenium(V), 243,1539
rhenium(VI), 1539
rhodium(I), 543
rhodium(II), 2729
rhodium(III), 187,717,2265
ruthenium, 1013
ruthenium(II), 113,421,963,1019, 1173,2137,2265,2483
ruthenium(III), 113,2511
ruthenium(IV), 1173
silver(I), 2423
tungsten, 1663
tungsten(II), 433,1177,1717
tungsten(VI), 477
Phosphine oxide complexes
copper(II), 1091
iron(II), 1163
platinum(II), 2471
Phosphine selenides, 2641
Phosphine selenide, sulphide complexes, platinum(II), 2471
Phosphiniminates
rhenium(VII), 2241
Phosphinoamine complexes
platinum(II), 501
Phosphinoenolates
palladium(II), 1521
Phosphinothioether complexes
palladium(I), 2523
Phosphinothiolates
ruthenium(II), 1019
Phosphites
aluminium, 659
Phosphite (organo) complexes
iron(II), 841
rhenium(I), 1873
ruthenium(II), 1091
Phosphonates
lutetium, 175
Phosphorus
methyl selenium cyclic compound, 261
Phosphorus(III)
fluoroacid, 1695
tricyano-, 1831
Phosphorus(V)
chloride complex, 2217
Photochemistry
cobalt(III) hydroxide peroxide tetramine complexes, 107
molybdenum(II) carbonyl cyclopentadienyl phosphine complexes, 1705
rhenium(III) bromide carbonyl cyclopentadienyls, 877
Phthaloyl complexes
Co(I), Fe(II), Mn(I), Mo(II), Re(I), Rh(III), 717
Picolinates
rhodium(III), 187
2-Picoline complexes
gallium(II), 95
3-Picoline complexes
copper(II), 793
gallium(II), 95
osmium(VI), 61
4-Picoline complexes
copper(II), 793
gallium(II), 95
palladium(II), 1513
Platinum(0)
alkyne diphosphine complexes, 909
diphosphine complexes, 899
phosphine complex, 2475
Platinum(II)
alkoxide chloride telluroether complexes, 2065
alkyl diphosphine halocarbon complex, 993
alkyl diphosphine phosphine complexes, 1411
alkynyl aryl cyanide diphosphine halide hydride complexes, 909
alkynyl chloride cyanide diphosphine phosphine pyrazolate complexes, 2153
ammonia creatinine hydroxide complexes, 799
arsine chloride phosphine pyridine thiolate thiophenoxide binuclear complexes, 851
aryls, 145,157,166
azole halide complexes, 1443
chloride diphosphine complexes, 899
chloride hydroxide penicillin complexes, 1473
chloride hydrazinium complex, 579
chloride iminoether complexes, 1573
chloride phenoxide telluroether complexes, 2693
chloride phosphine complex, 2737
chloride phosphinoamine complexes, 501
diamine complexes, 2191
diamine halide organoamide pyridine complexes, 747
diimine cyclometallated complexes, 255
diphosphine hydride silyl

complex, 867
phosphine phosphine chalcogenide complexes, 2471
Platinum(III)
aryls, 157
Platinum(IV)
bromide diamine thioether cyclic complex, 19
chloride iminoether complex, 1573
diamine halide complexes, 2191
metallacyclic compounds, fluxionality, 1587
pentasulphide complex, 2501
Polarography
ruthenium(III) azole carbonyl chloride phenoxide Schiff base complexes, 2559
ruthenium(III) edta nucleoside complexes, 2465
Polyamine complexes
cobalt(III), 1449
Polyazine complex
nickel(II), 859
Polybutadiene oxidation, 993
Polycarboxylates
calcium, sodium, 1565
Poly(dimethylsilylenes), 1227
Polyketone synthesis, 993
Polyphosphates
aluminium, 1527
hydrolysis, 697
lithium, sodium, 67
Polyselenides, 2629
Polysulphide complexes
indium, 1069
Porphyrins
chromium(III), 373
cobalt(III), 1379
iron(III), 373
ruthenium, 315
thallium, 885,2069
tin(IV), 509
Potassium
alcohol alkoxide complexes, 337
arene siloxide complex, 2353
arylamide diamine pyridine complexes, 1839
carboxylate crown ether complexes, 1591
crown ether complex, 1025
crown ligand ether siloxide complexes, 2699
Potentiometric titrations
palladium aminoacid complex, 333
pyridylcarbinol complexes, 2791
Praseodymium
amidopyridine nitrate perchlorate thiocyanate water complexes, 2405
chloride hydrazone phenanthroline water complexes, 1491
disulphoxide perchlorate complex, 629
hydrazone complexes, 2185
sexadentate Schiff base water complex, 683
Propanediamine complexes
platinum(II),(IV), 2191
2-Propanol, solvent for copper(II) halide complexes, 2529
2-Propanol complexes
molybdenum(VI), 2617
neodymium, 1559
niobium(II,III), 2031
sodium, 2617
tantalum(II,III), 2031
tungsten(VI), 2617
Propenoates
molybdenum(II), 2273,2283
ruthenium(II,III), 2273
Propionitrile complexes
rhenium(I,II),(II), 79
tungsten(II), 1717
i-Propoxides
aluminium, 1639,1733
cobalt(II), 1733
lanthanum, 949
lead(II), 1103,1657
molybdenum(VI), 2617
neodymium, 1559
nickel(II), 1733
sodium, 2617
tungsten(VI), 477,2617
zirconium, 949
Propyldithiocarbamates
nickel(II), 2821
i-Propylthiolates
platinum(II), 851
i-Propylxanthate complexes
ruthenium(II), 421
Pulse radiolysis
copper(II) tetramine macrocyclic binucleating complex, 1373
Purine-6-thione complexes
copper(I), 935
Pyrazine complexes
copper(I), 1835
ruthenium(II), 1139,1699
Pyrazolates
platinum(II), 2153
rhenium(VII), 2241
rhodium(I), 2153
Pyrazole complexes
palladium(II), 1513
Pyrazole Schiff base thione complexes, nickel(II), 179
Pyrazolyl complexes
ruthenium, 315
Pyrazolylborates
iridium(I), 1595
tungsten(IV), 215
Pyridine complexes
barium, 769
cobalt(II), 2791
cobalt(III), 977,1779,2597
copper(II), 495,535,793,1327, 1579,1647,1675,1791,2791
europium, 1385
iron(II), 2791
lanthanides, 683,1385,2405
nickel(II), 37,535,1327,1759, 2659,2725,2791
niobium(V), 1959
osmium(VI), 61
palladium(II), 1513,2265
platinum(II), 747,851
potassium, 1839
rhodium(I), 1061
rhodium(III), 187
ruthenium, 1799
ruthenium(II), 653,1139,1727
ruthenium(II,III), 653
ruthenium(III), 1139
silver(I), 127

sodium, 1839
tin(IV), 1085
tungsten(V), 2089
uranium(VI), 779
yttrium, 1049
zinc, 2791
4-Pyridinecarboxylic acid hydrazone complexes
manganese(II), 2477
Pyridine-*N*-oxide complexes
cadmium, 2111
copper(II), 1363,1625
nickel(II), 37
thorium, 2809
Pyridine-*N*-oxidedithiocarbazates
nickel(II), 2659
Pyridine-*N*-oxide-2-thiolates
Co(III),Fe(III),Mn(II),Ni(II), 2651
Pyridinethionate complexes
cadmium, 197
ruthenium(II), 837
zinc, 197
Pyridinoacetates
silver(I), 1723
Pyridoxal phosphate Schiff base complexes, copper(II), 2163
Pyridoxates
copper(II), 2851
2-Pyridyl complexes
ruthenium, 302
2,2'-Pyridylbenzimidazole complexes, Cr(II), Cu(II), 2541
Pyridyl-2-diethylphosphonates
Rh(III), Ru(III), Zn, 2229
Pyridylhydrazone complexes
silver(I), 127
2,2'-Pyridylimidazole, -oline complexes, Cr(II), Cu(II), 2541
N-(2-Pyridyl)methyl-2-(2-aminoethyl)thioacetamide complexes, cobalt(III), 977
Pyridyl-2-phenylhydrazone complexes, ruthenium(II), 2483
N-(2-Pyridyl)pyridine-2'-carboxamide complexes
lanthanides, 2405
Pyrimidine complexes
copper(II), 873
Pyrimidinethione complexes
palladium(II), 1507
Pyrophosphates
tin(II),(IV), 377
Pyrrolidinedithiocarbamate complexes
cadmium, 325
nickel(II), 2025,2821
nickel(III), 2025
tungsten(II), 711
vanadium(IV), 1817
Pyruvic acid hydrazone complexes
manganese(II), 2477

Q

Quinaldinates
rhodium(III), 187
Quinates
osmium(VI), 61
Quinizarine complexes
manganese(II), 1929
Quinoline thioether complexes
copper(II), 1579
Quinoline-2-thione complexes
ruthenium(II), 837
Quinone complexes
manganese(II), 1929
Mo(VI), Os(III), Ru(III), U(VI), 2511
Quinquepyridine complexes
cobalt(II), 1395

R

Racemisation, aminoacids, 2163
Radiation - catalytic reduction, dinitrogen, 1007
Raman spectra
ammonia complex, 2317
binuclear complexes, 997
bromides, 997,2757
chlorides, 997,1699,2217
dicarboxylate, 61
disulphide complexes, 997
ether complexes, 95
gallium(II) compounds, 95
hydroxycarboxylates, 61
iodides, 95
molybdate, 2317
oxo complexes, 61,997
perchlorate, 2317
phosphates, phosphinates, phosphites, 659
polyiodides, 1911
pyrazine complexes, 1699
selenium(II) chloride thiochloride, 1037
sulphonates, 2757
sulphoxide complexes, 1699
thio complexes, 997
thioether complexes, 95
Relaxation times
nickel(II) ketoimine tetradentate complexes, 2833
Rhenium
alkylimide carbonyl complex, 1473
cyclopentadienyl halide haloalkane nitrosyl phosphine complexes, 1903
Rhenium(0)
carbonyl diphosphinoferrocene complexes, 2437
Rhenium(I)
carbonyl cyclopentadienyl phosphine complexes, 1873
carbonyl halogen phosphinothioether complexes, 1603
Rhenium(I,II)
carbonyl chloride diphosphine nitrile complex, 79
Rhenium(II)
acyl aryl carbonyl sulphinyl complexes, 717
aryls, 166
carbonyl carboxylate chloride cyanotrihydroborate diphosphine nitrile complexes, 79
carbonyl cyclopentadienyl iodide phosphine complexes, 1873
Rhenium(II,III,III)
chloride sulphate complex, 741

Rhenium(III)
aryls, 152
bromide carbonyl cyclopentadienyls, 877
Rhenium(IV)
aryls, 141
Rhenium(V)
alkylimide carboxylate chloride nitrile siloxide complexes, 2241
amine chloride oxo phenoxide phosphine Schiff base complexes, 243
chloride diazenide maltol phosphine complex, 1539
Rhenium(V,VI)
alkylimide halide complexes, 2241
Rhenium(VI)
alkylimide, 2241
arylimide maltol phosphine complex, 1539
Rhenium(VII)
alkylamide alkylimide amine arylamide carboxylate cyclopentadienyl oxo phosphide phosphiniminate pyrazolate siloxide complexes, 2241
alkylimide oxo sulphonate complex, 2647
Rhodanine complexes
mercury, thallium(III), 1465
Rhodium
alkyne complexes, review, 1995
Rhodium-105, incorporation into globulin, 1617
Rhodium(I)
amine chloride diene pyridine complexes, 1061
arsine carbonyl diphosphine isocyanide pyrazolate complexes, 2153
carbonyl diene hydride phosphide phosphine iron(0) complexes, 543
carbonyl diene tripyrazolylamine complexes, 1595
Rhodium(I,II)
carboxylate chloride diimine complexes, 2551
Rhodium(II)
hydride phosphine complex, 2729
Rhodium(III)
acyl chloride phosphine complex, 717
aryls, 144,156
aryl carbonyl carboxylate phosphine pyridinecarboxylate water mercury complexes, 187
chloride amine oxime complexes, 1617
chloride ether oxime complexes, 1611
chloride pyridylphosphonate zinc complexes, 2229
halide phosphine selenoamide complexes, 2265
hydride tin(II) complex, 1721
Rubidium
alcohol alkoxide complexes, 337
crown ether complexes, 221
Ruthenium
carbonyl chloride cyanide nitrosyl phosphine thiocyanate mercury complexes, 1013
carbonyl hydride phosphide complex, 1955
carbonyl nitrogen donor cluster complexes, review, 277
carbonyl phosphine thio tungsten complexes, 447
halide hydroxyquinoline nitrosyl complexes, 583
nitrite nitrosyl phenylazopyridine complex, 1799
Ruthenium(II)
acetate phosphine complex, 113
acetonitrile cyclopentadienyl phosphine complex, 1173
acyl alkanediyl alkene carbonyl cyclopentadienyl halide phosphine complexes, 963
alkenyl carbonyl dithiocarbamate phosphine xanthate complexes, 421
aminopyridine arene chloride complexes, 1727
ammonia carbonyl chloride cyclopentadienyl diphosphine hydride complexes, 1713
ammonia crown ether pyridine complexes, 1139
ammonia dipyridyl pyridine iron(II) complexes, 653
arene chloride dimethylphosphite Cu(II) complex, 1091
carbonyl chloride diphosphine dithiocarbamate hydride phosphine phosphinothiolate thiocarbonyl xanthate complexes, 1019
carbonyl chloride phosphine selenoamide complexes, 2265
carbonyl chloride pyridinethione complexes, 837
chloride hydrazide phosphine complexes, 2137
chloride pyrazine sulphoxide complex, 1699
cyclopentadienyl phosphine pyridylhydrazone complexes, 2483
diimine complexes, 1485
Ruthenium(II),(III)
acetate complex, 829
ammonia cyanopyridine dipyridyl pyridine iron(II) complexes, 653
carboxylate chlorides, 491,2273
Ruthenium(III)
acetate oxo phosphine complex, 113
aminophenoxide arsine halide hydroxyquinoline complexes, 2137
ammonia crown ether pyridine complexes, 1139
arsine chloride quinone complex, 2511
ascorbate chloride water complex, 2711
azole carbonyl chloride phenoxide Schiff base complexes, 2559
chloride cyclopentadienyl

diphosphine complex, 1713
chloride pyridylphosphonate zinc complex, 2229
edta nucleoside complexes, 2465
Ruthenium(IV)
acetonitrile cyclopentadienyl phosphine silylene complex, 1173
aryls, 142

S

S_2N_2, $S_3N_2^{2-}$ complexes
palladium(II), 2337
Saccharinates
copper(II), 403
Salicylaldimine complexes
Cd, Co, 823
copper(II), 823,893,1653,2051
molybdenum(VI), 33,819
nickel(II), 823
palladium(II), 1513
rhenium(V), 243
thorium, 819
tungsten(VI), 819
uranium(VI), 771,819
zinc, 819,823
Salicylates
tin(IV), 509
Samarium
amidopyridine nitrate perchlorate thiocyanate water complexes, 2405
carboxylate chloride cyclopentadienyls, 1599
chloride hydrazone phenanthroline water complexes, 1491
disulphoxide perchlorate complex, 629
hydrazone complexes, 2185
hydrazone water complex, 2779
Sarcosine complexes
cobalt(III), 977
SCF - CI calculations, silanes, 1265
Schiff base complexes
cadmium, 771,823
cobalt(II), 823,1779,2785
cobalt(III), 1687,1779
copper(II), 731,823,893,1327, 1653,1687,2051,2163,2785
europium, 1385
iron(II), 2785
lanthanides, 683,1385
molybdenum(VI), 33,819,973
nickel(II), 37,179,823,859,1327, 1687,2833
palladium(II), 1513
rhenium(V), 243
ruthenium, 314
ruthenium(III), 2559
thorium, 819,973,2399
tungsten(VI), 973
uranium(VI), 779,819,973,2399
zinc, 771,823
zirconium, 819,973
Selenium
chloride thiochloride, 1037
nitrogen compounds, review, 2353
phosphorus cyclic compound, 261
polynuclear anions, 2629
sulphides, 1037
Seleno complexes
chromium, 591
cobalt, 927
germanium, 1203
iron, 203
molybdenum(VI), 1311
silicon, 1231
tin(IV), 1203
tungsten(VI), 1311
Selenoamide complexes
Pd(II), Rh(III), Ru(II), 2265
Semibenzoquinonediiminate complexes, copper, 955
Semiquinone complexes
manganese(II), 1929
Sexidentate amine complexes
Cd,Co,Cu, 409,823
iron(II), 409
lanthanides, 683
manganese(II), 409
nickel(II), 823
lead, zinc, 409
Silanes, molecular orbitals, 1265, 1285
Silicon
acetate alkoxide aryl enol-ether hydride compounds, 1173
alkoxide alkyl oxo anions, 1097
alkyls, doped with AsF_5, 1227
alkyl aryl seleno compounds, 1231
alkyl iminyls, 1147
cluster structures, molecular orbitals, 1299
diketonate thiocyanate, 2463
hydride propellanes, 1247
nitrogen compounds, book review, 1593
oxide minerals, 55
tris-bidentate complexes, 1131
Siloxanes, 1097
Siloxides
aluminium, 1367,1639
bismuth, 437
lithium, 2699
molybdenum(III), 2839
potassium, 2353,2699
rhenium(V),(VII), 2241
tungsten(III), 2839
Silver
amine thioether complex, 19
aryls, 145,160
betaine nitrate complexes, 1723, 2687
diphosphine complex, 737
phosphine iron(0) complex, 2423
pyridine pyridylhydrazone double helical complex, 127
Silyls
in dehydrocoupling reactions, 1239
iron(II), 841,1177
molybdenum(IV), 1189
platinum(II), 867
tungsten(II), 1177
tungsten(IV), 1189
Silylamides
barium, 769
Ge, Sn(II),(IV), 1203
Silylene complexes
iron(II) 1163

Sodium
alcohol alkoxide heterometallic complexes, 2617
arylamide diamine pyridine complexes, 1839
benzenedioxyacetate water calcium complex, 1565
carboxylate crown ether complexes, 1591
crown amide ether complex, 1877
diphenyldiselenophosphinate ether water complex, 2641
phosphates, 67,2587
Solid formation and dissolution modelling, 1121
Solubility diagrams
heteropolymetallic alkoxides, 2617
Solubility products
tin pyrophosphate complexes, 377
Solvated electron, reaction with Mo(V) complex, 1459
Solvent extraction
cobalt(III) diketonate phenol complexes, 1405
copper(II), nickel(II) ketoxime complexes, 919
potassium crown ether - gold chloride complex ioron pairs, 1025
rhodium(III) hydride tin(II) complex, 1721
Square antiprismatic complexes, interligand repulsions, 393
Stannyls
cobalt(I), 2535
Stibine complexes
iron(II), 2095
molybdenum(II), 665
Strontium
oxide in feldspar glass, 55
Sulphates
Co(II), Cu(II), Fe(II), 2785
rhenium(II,III,III), 741
tungsten(VI), 649
Sulphinates
cobalt(III), 1453,2847
Sulphinyl complexes
iron(II), 717,963
Mn(I), Re(I), 717
Sulphonates
Cd, Co, Cu, Fe, Ga, Ni, 2757
rhenium(VII), 2647
Sulphoxide complexes
cobalt(III), 2075
ruthenium(II), 1699
thorium(IV), uranium(VI), 2567
Sulphur - nitrogen complexes
palladium(II), 2337
Sulphur(II)
chloride selenochloride, 1037

T

Tantalum(II,III)
alcohol halide complexes, 2031
Tantalum(IV)
aryls, 148
Tantalum(V)
aryls, 138,148
fluoride complex, 2605
Tartrate complexes
osmium(VI), 61
Tellurium - nitrogen compounds, review, 2353
Telluro compounds
germanium, tin(IV), 1203
Telluroether complexes
Hg(II),Pd(II),Pt(II), 2065,2693
Terbium(III)
amidopyridine nitrate thiocyanate complexes, 2405
chloride hydrazone phenanthroline water complexes, 1491
disulphoxide perchlorate complexes, 629
hydrazone complexes, 2185
Terbium(IV)
phosphate water complex, 1479
Terpyridine complexes
copper(II), 2451
magnesium, 1883
Tetraazaannulene complexes
copper, 1911
2,3,4,5-Tetracarbahexaboranes(6), 1497
Tetracyanoethene complexes
cobalt(III), 725
Tetraethylenepentamine complexes
cobalt(III), 1449
Tetrahydrofuran complexes
bismuth, 437
gallium(II), 95
magnesium, 2457
molybdenum(II,III,III), 2145
molybdenum(V), 2457
potassium, 2699
sodium, 2641
tungsten(V), 2089
tungsten(VI), 2417
yttrium, 1049
Tetrahydropyran complexes
gallium(II), 95
Tetrahydrothiophene complexes
gallium(II), 95
Tetrakis(trimethylammoniumphenyl)-porphyrinates, Co(III), 1379
Tetramethyldiphosphine complexes
gallium(II), 95
Tetramethylethylenediamine complexes
platinum(II),(IV), 2191
potassium, sodium, 1839
2,2,6,6-Tetramethyl-3,5-heptanedionate complexes
bismuth, 437
Tetramethylphenyls
palladium(II), 2037
2,4,4,9-Tetramethyl-1,5,9-triazacyclododec-1-ene complexes
nickel(II),(III), 2025
Tetramine complexes
cobalt(II), 1779,2785
cobalt(III), 107,1779
copper(II), 523,883,1373,2785
iron(II), 2785
nickel(II), 103
Tetraphenylporphyrin complexes
chromium(III), 373
iron(III), 373
thallium(III), 885,2069
tin(IV), 509
Tetraphosphates

aluminium, 1527
1,4,8,11-Tetrathiaundecane
complexes, cadmium, 325
Thallium(III)
acetate porphyrin, 2069
halide porphyrins, 885
methyl phenyl rhodanine
complexes, 1465
methyl thiobarbiturate
complexes, 517
Thenoyltrifluoroacetonates
uranium(VI), 1683
Thermal analysis
alkali polyphosphates, 67
chloride hydrazinium water
complexes, 365
chromium(III) azide porphyrin
complexes, 373
cobalt(II) diarylphosphonate
pyridine complex, 2771
copper iodide tetraazaannulene
complexes, 1911
copper(II) creatinine methoxide
complexes, 1767
copper(II) diarylphosphonate
pyridine complex, 2771
indium bromide polysulphide
complex, 1069
iron(III) azide porphyrin
complexes, 373
lanthanide chloride hydrazone
phenanthroline water
complexes, 1491
lanthanide disulphoxide
perchlorate complexes, 629
lanthanide hydrazone complexes,
2185
lanthanide water complexes, 2779
manganese(0) carbonyl diphos-
phinoferrocene complexes, 2437
mercury halide ketone thione
complexes, 351
methyl salicylate on clay
minerals, 567
molybdenum chloride hydride
nitrosyl complex, 429
molybdenum(II) acetate diamine
complexes, 2573
molybdenum(VI) ethylenediamine
oxo complex, 2057
palladium(II) hydroxide pyrim-
idinethione complexes, 1507
platinum(II) azole halide
complexes, 1443
rhenium(0) carbonyl diphosphino-
ferrocene complexes, 2437
thorium amide halide nitrate
pyridine-*N*-oxide thiocyanate
complexes, 2809
thorium halide nitrate
sulphoxide thiocyanate
complexes, 2567
tungsten(V) oxo thio xanthate
complexes, 2235
uranium(VI) acetate halide
nitrate oxo sulphoxide
thiocyanate complexes, 2567
uranium(VI) amide diketonate oxo
complexes, 1683
uranium(VI) carboxylate halide
nitrate oxo Schiff base
thiocyanate complexes,2399
Thermodynamic database
compilation, 1105,1113, 1121
Thiazolidinethione complexes
copper(I), 935
Thio complexes
cobalt, 927
copper(I), 2743
copper(II), 2351
germanium, 1203
iron, 203
mercury, 41
molybdenum(III,IV), 2203,2351
molybdenum(IV), 2799
molybdenum(V), 997,2743
tin(IV), 1203
tungsten(III,IV), 2203
tungsten(V), 997,2235,2743
tungsten(VI), 1311
Thioacetates
iron(II), 2095
Thiobarbiturates
thallium(III), 517
Thiobenzoates
iron(II), 2095
Thiocarbonyls
ruthenium(II), 1019
Thiocarboxylates
iron(II), 2095
Thiocresolates
cobalt(II), 553
Thiocyanates
cobalt(III), 2597
lanthanides, 1889,2405
mercury, 1013,2611
molybdenum(0), 2611
molybdenum(III), 323
nickel(II), 823,1031,1759,2659,
2725
ruthenium, 1013
silicon, 2463
thorium, 2399,2567,2809
uranium(VI), 2399,2567
Thioether complexes
astatine(I), 11
cadmium, 325,823
caesium, 221
cobalt(II), 823
cobalt(III), 977
copper(II), 823,1579,1647
gallium(II), 95
mercury, 1545
molybdenum(0),(II), 1549
nickel(II), 823,1031
palladium(I), 561,2523
palladium(II), 561, 2037
platinum(II), 1473
platinum(IV), 19
rhenium(I), 1603
rubidium, 221
silver, 19
tungsten(0),(II), 1549
zinc, 823
Thiolates
cadmium, 325,771
chromium(III), 2255
chromium(VI), 753
cobalt(II), 553
cobalt(III), 2651
copper(II), 535
iron, 203
iron(II), 1163
iron(III), manganese(II), 2651
molybdenum(VI), 973
nickel(II), 535,2651

palladium(II), 89,1343
platinum(II), 851
Th, W(VI), U(VI), 973
zinc, 771
zirconium, 973
Thionate, thione complexes
astatine(I), 11
cadmium, 197
copper(I), 935
mercury, 351
nickel(II), 179
palladium(II), 1507
zinc, 197
Thiophenoxides
chromium(VI), 753
cobalt(II), 553
iron, 203
platinum(II), 851
titanium(IV), 1847
Thiosalicylates
titanium(IV), 1847
Thiosemicarbazone complexxes
copper(II), 1625
1,4-Thioxan complexes
gallium(II), 95
Thiourea complexes
copper(I), 935
Thorium
amide halide nitrate pyridine-*N*-oxide thiocyanate complexes, 2809
antipyrine-hydroxynaphthaldehyde Schiff base halide nitrate thiocyanate complexes, 2399
halide nitrate sulphoxide thiocyanate complexes, 2567
peroxide salicylaldimine complexes, 819
peroxide Schiff base thiolate complexes, 973
Thulium
amidopyridine nitrate perchlorate thiocyanate water complexes, 2405
chloride hydrazone phenanthroline water complexes, 1491
hydrazone complexes, 2185
hydrazone water complex, 2779
Tin
cluster structures, molecular orbitals, 1299
Tin(II)
chloride, reaction with Mo(IV) hydrazide complex, 467
chloride rhodium(III) complex, 1721
cyclopentadienyl silylamides, 1203
pyrophosphate complexes, 377
Tin(IV)
alkyl aryl ester iodide pyridine complexes, 1085
butyl chloride molybdenum(II) tungsten(II) complexes, 1717
carboxylate hydroxide porphyrinate water complexes, 509
chalcogenide silylamide metallacyclic compounds, 1203
chloride iron(0) compounds, 2105
chloride methyl phenol complex, 2683
chloride nitrile complexes, 2131
halide methyl metallacyclic compounds, 1497
hydride propellanes, 1247
pyrophosphate complexes, 377
Titanium(III)
aryls, 163
oxalate complexes, 829
Titanium(IV)
aminophenoxide carboxylate chloride cyclopentadienyl phenoxide thiophenoxide thiosalicylate complexes, 1847
aryls, 136,148
chloride cyclopentadienyl disilylmethyls, 1177
chloride nitrile complexes, 2131
cyclopentadienyl silyls, in dehydrocoupling reactions, 1239
fluoride complex, 2605
Tolyls
palladium(II), 2037
Triamine complexes
gallium, indium, 1951
nickel(II),(III), 2025
Triazene complexes
ruthenium, 314
3,4,5-Tribromopyrazolates
platinum(II), rhodium(I), 2153
Tri(*t*-butyl)methanol complexes
lead(II), 1657
Tri(*t*-butyl)methoxides
lead(II), 1657
Tributylphosphine complexes
molybdenum(II), 1705
palladium(II), 2265
platinum(II), 851
Rh(III), Ru(II), 2265
Trichloroacetates
erbium, neodymium, 1921
Trichlorogermyls
molybdenum(II), 2519
Tri(4-chlorophenyl)phosphine complexes
rhodium(III), 187
Trichlorosilyls
iron(II), 841
Triethanolamine complexes
barium, 2045
Triethyl betaine complexes
silver(I), 2687
Triethylenetetramine complexes
cobalt(III), 107
Triethylphosphine complexes
chromium(0), 1427
iron, 203
molybdenum(II), 665
molybdenum(II,III,III), 2145
palladium(II), 1343
platinum(II), 1411
Triethylphosphite complexes
molybdenum(II), 1705,1717
rhenium(I), 1873
tungsten(II), 1717
Trifluoroacetates
mercury, 133,187
rhenium(V),(VII), 2241
rhodium(III), 187
Trifluoromethyls
platinum(II), 993
Trifluoromethylsulphonates
Cd, Co, Cu, Fe, Ga, Ni, 2757

rhenium(VII), 2647
Trifluoropentanedionates
copper(I), 645,2293
molybdenum(II), 605
Tri(4-fluorophenyl)phosphine complexes
rhodium(III), 187
Trigonal bicapped prismatic complexes, interligand repulsions, 393
Triiodide complexes
copper, 1911
Tri(4-methoxyphenyl)phosphine complexes
rhodium(III), 187
2,4,6-Trimethylphenyls
iridium(IV), 1457
Trimethylphosphine complexes
chromium(0),(I), 1427
copper(I), 645
iridium(III), 1857
molybdenum(II), 665
niobium(-I),(0),(II), 389
palladium, 673
palladium(II), 89,1343
platinum(II), 1411
ruthenium(II),(IV), 1173
tungsten(VI), 477
Trimethylphosphite complexes
Mo(II), W(II), 1717
Trimethylsiloxides
aluminium, 1367,1639
rhenium(V),(VII), 2241
Trimethylsilyls
iron(II), 841
silicon, 1231
Trimethylsilylcyclopentadienyls
tin(II), 1203
Trimethylstannyls
cobalt(I), 2535
2,4,4-Trimethyl-1,5,9-triazacyclododec-1-ene complexes
nickel(II),(III), 2025
Triphenylarsine complexes
cobalt(I), 2535
iron(II), 2095
molybdenum(II), 665
osmium(III), 2511
platinum(II), 851
ruthenium(III), 2137
Triphenylbismuthine complexes
molybdenum(II), 665
Triphenylgermyls
tungsten(III), 1215
Triphenylmethoxides
Mo(III), W(III), 2839
tungsten(VI), 477
Triphenylphosphine complexes
cobalt, 927
cobalt(I), 717,2535
copper(I), 347,471,2423,2743
gold(I), 2423
gold(III), 1939
iron(II), 717,2095
manganese(I), 717
molybdenum, 1663
molybdenum(II), 433,665,1705, 2519
molybdenum(II,III,III), 2145
molybdenum(IV), 467
palladium(0), platinum(0), 2475
platinum(II), 851,1411
rhenium, 1903
rhenium(I), 1873
rhenium(V),(VI), 1539
rhodium(II), 2729
rhodium(III), 717
ruthenium, 1013
ruthenium(II), 113,421,963,1019, 2137,2483
ruthenium(III), 113,2511
silver(I), 2423
tungsten, 1663
tungsten(II), 433,1177
Triphenylphosphiniminates
rhenium(VII), 2241
Triphenylphosphite complexes
cobalt(I), 2535
iron(II), 841
molybdenum(II), 665
rhenium(I),(II), 1873
Triphenylsiloxides
bismuth, 437
lithium, potassium, 2699
molybdenum(III), 2839
potassium, 2699
tungsten(III), 2839
Triphenylsilyls
iron(II), 841
platinum(II), 867
Triphenylstibine complexes
iron(II), 2095
molybdenum(II), 665
Triphosphate, aluminium, 1527
Triphosphine complexes
cobalt(I), 2123
Triphosphorus complexes
cobalt(I), 2123
Tris(2-cyanoethyl)phosphine complexes,
ruthenium, 1013
ruthenium(II), 1019
1,1,1-Tris(diphenylphosphinomethyl)ethane complexes, Co(I), 2123
Tris(1-pyrazolylmethyl)amine complexes, Ir(I),Rh(I), 1595
Tris(2-pyridyl)carbinol complexes
Co,Cu,Fe,Mn,Ni,Zn, 2791
Tri-*o*-tolylphosphine complexes
platinum(II), 1411
Tri-*p*-tolylphosphine complexes
copper(I), 935
platinum(II), 851,1411
rhodium(III), 187
Tropolonates
silicon, 1131
Tungsten
book review, 2084
carbonyl phosphine polyhedral borane complex, 1663
carbonyl phosphine thio ruthenium complexes, 447
electrochemistry, book review, 1845
Tungsten(0)
carbonyl cyclopentadienyl isocyanide complexes, 267
carbonyl diphosphine complexes, 2381
carbonyl diphosphine thioether complexes, 1549
Tungsten(II)
acetonitrile aluminohydride chloride diphosphine hydride complexes, 595
acetonitrile carbonyl diketonate

iodide phosphine complexes, 433
alkyl carbonyl cyclopentadienyl silyl compounds, 1177
alkyne azole carbonyl dithiocarbamate complexes, 711
carbonyl chloride nitrile phosphine tin(IV) complexes, 1717
Tungsten(III)
alkoxide alkylamide siloxide compounds, 2839
alkoxide amine arylamide complexes, 2309
alkylamide germyl, 1215
allyl cyclopentadienyl compounds, 459
Tungsten(III,IV)
dithiophosphate thio complexes, 2203
Tungsten(IV)
alkylidene alkylidyne carbonyl pyrazolylborate complexes, 215
allyl cyclopentadienyl compounds, 459
aryls, 139,151
cyclopentadienyl silyl compounds, 1189
diphosphine hydride complexes, 595,1007,2827
Tungsten(V)
aryls, 139
chloride diphosphine complex, 595
chloride ether fluorenone pyridine complexes, 2089
dithiolate thio copper(I) complex, 2743
oxo thio xanthate complexes, 2235
Tungsten(VI)
alcohol alkoxide oxo heterometallic complexes, 2617
alkoxide alkylamide alkylimide amine chloride oxo phosphine complexes, 477
chloride ether oxo complex, 2417
diphosphine halide seleno thio complexes, 1311
disulphide halide oxo thio complexes, 997
doxycycline oxo complexes, 455
oxo peroxo salicylaldimine complexes, 819
oxo peroxo Schiff base thiolate complexes, 973
oxo peroxo sulphate complex, 649
Tyrosine Schiff base complexes
copper(II), 2163

U

Ultraphosphates, Li, Na, 67
Uranium(IV)
aryls, 147
Uranium(VI)
acetate halide nitrate oxo sulphoxide thiocyanate complexes, 2567
amide diketonate oxo complexes, 1683
antipyrine - hydroxynaphthaldehyde Schiff base halide nitrate thiocyanate complexes, 2399
carboxylate hydrazone oxo phenoxide pyridine water zinc complexes, 779
oxo peroxide salicylaldimine complexes, 819
oxo peroxide Schiff base thiolate complexes, 973
oxo phosphate complexes, 47
oxo quinone complexes, 2511
Uridine complexes
ruthenium(III), 2465

V

Vanadates
hydrolysis, 249
Vanadium(-I)
carbonylate anions, 2487
Vanadium(II)
aryls, 148,163
Vanadium(III)
aryls, 148,163
Vanadium(IV)
aryls, 137
dipyridyl iminodiacetate oxo complex, 73
dithiocarbamate halide complexes, 1817
fluoride oxo complex, 2605
hydroxyketone oxo binucleating complexes, 1353
Vanadium(V)
hydroxide hydroxyketone sulphate binucleating complexes, 1353
oxo cations, 359
vanadates, 249
Vapours, inorganic, book review, 2851
Vapour pressure
antimony(V), boron, chloride nitrile complexes, 2131
gold(III) chloride, 633
tin(IV), titanium(IV), chloride nitrile complexes, 2131
Vinyls
ruthenium(II), 421
1-Vinylimidazole complexes
molybdenum(VI), 33
Volume of activation
iron(II) diimine complex
dissociation, 703
substitution, cobalt(III) chloride pentamine complex, 1449
substitution, cobalt(III) porphyrin water complex, 1379

W

Water complexes
aluminium, 659
calcium, 1569
chromium(III), 619,2389
cobalt(II), 365,2771
cobalt(III), 1379

copper(II), 365,495,941,1579, 1675,1893,2351,2771,2851
iron(II), 365,2771
iron(II,III), 2605
lanthanides, 683,1479,1491,1889, 1921,2405,2779
manganese(II), 2477
molybdenum(III,IV), 2351
nickel(II), 365
rhodium(III), 187
ruthenium(III), 2711
sodium, 1565,2641
terbium(IV), 1479
tin(IV), 509
uranium(VI), 779
yttrium, 2171
Westonite, 567

X

Xanthates
nickel(II), 2821
ruthenium(II), 421,1019
tungsten(V), 2235
Xanthosine complexes
ruthenium(III), 2465
XPE spectra
molybdenum(III,IV) acetate dithiophosphate oxo thio complexes, 2203
osmium(VI) hydroxycarboxylate oxalate oxo pyridine complexes, 61
rhenium(0) carbonyl diphosphinoferrocene complexes, 2437
X-ray crystal structures
aluminium alkoxide siloxides, 1639
aluminium siloxide, 1367
barium aminoalkoxide, 2045
bismuth alkoxide ether siloxide complexes, 437
bismuth chloride heteropoly-nuclear complexes, 123
cadmium halide pyridine-*N*-oxide complexes, 2111
calcium benzenedioxydiacetate sodium complex, 1565
calcium dicarboxylate ether water complex, 1569
chromium(III) alkoxythiolate complex, 2255
cobalt alkylimide carbonyl complex, 1423
cobalt phosphine seleno thio complexes, 927
cobalt(I) arsine carbonyl phosphine stannyl complexes, 2535
cobalt(II) acetate quinquepyridine complex, 1395
cobalt(II) diarylphosphate methanol water complex, 2771
cobalt(II) diphosphine thiolate complexes, 553
cobalt(II) hydride triphosphine triphosphorus complex, 2123
cobalt(III) amine aminoacid chloride nitrite pyridine thioether complexes, 977
cobalt(III) ammonia malate complex, 2495
cobalt(III) amine azide pyridine thiocyanate complexes, 2597
cobalt(III) arginine hydroxide complex, 2717
copper(I) borohydride polyphosphine complex, 1827
copper(I) carbaborane phosphine complex, 471
copper(I) chloride phosphine thione complex, 935
copper(I) diene diketonate complex, 2293
copper(I) diketonate phosphine complexes, 645
copper(I) phosphine thio heterometallic complexes, 2743
copper(I) pyrazine complex, 1835
copper(II) acetate chloride dipyridyl hydroxide complex, 2301
copper(II) acetate pyrimidine complex, 873
copper(II) aminoacid complex, 273
copper(II) aminoacid - pyridoxal phosphate Schiff base complexes, 2163
copper(II) azide terpyridyl complex, 2451
copper(II) azole chloride complexes, 1333
copper(II) bromide hexamine water binucleating complex, 941
copper(II) carboxylate dipyridyl water complex, 1893
copper(II) chloride diamino-pyridine complex, 1675
copper(II) chloride dimethyl-phosphite ruthenium(II) complex, 1091
copper(II) chloride dipyridylamine pyridoxate water complex, 2851
copper(II) chloride dipyrid-ylamine water complex, 495
copper(II) diamine nitrate complex, 2225
copper(II) dipyridyl complex, 101
copper(II) dipyridyl saccharinate complex, 403
copper(II) nitrate pyridine-*N*-oxide thiosemicarbazone complex, 1625
copper(II) nitrate quinoline-thioether water complex, 1579
copper(II) phenanthroline pyridine-*N*-oxide-dithiocarbazate complex, 1363
copper(II) salicylaldiminate, 2051
erbium lactam nitrate mercury complex, 1079
europium acetate carbonate pyridine Schiff base macrocyclic complex, 1385
gadolinium crown ether thiocyanate water complex, 1889
gallium alkyl amine arylamide complexes, 1897
germanium silylamide telluro

compound, 1203
gold chloride diamine complex, 19
gold(III) bromide chloride phosphine complex, 1939
gold(III) chloride complex, 1631
iminoether salt, 1631
indium bromide polysulphide complex, 1069
indium triamine complex, 1951
iridium(III) chloride phosphine complexes, 1857
iridium(IV) mesityl, 1457
iron(0) carbonyl cyclopentadienyl bismuth complex, 123
iron(0) carbonyl phosphide rhodium(I) complex, 543
iron(0) carbonyl phosphide silver(I) complex, 2423
iron(II) carbonyl hydride phosphite silyl complex, 841
iron(II) carbonyl phosphine oxide silylene thiolate complex, 1163
iron(II) carboxylate cyclopentadienyl hydrazine complexes, 483
iron(II) chloride hydrazinium water complex, 365
iron(III) cyclopentadienyl, 1741
lanthanum alcohol alkoxide complex, 1049
lithium alkoxide, 805
lithium ether siloxide complex, 2699
lutetium phosphonate complex, 175
magnesium chloride ether oxo molybdenum(V) complexes, 2457
magnesium terpyridyl complex, 1883
manganese(0) carbonyl diphosphinoferrocene complex, 2437
manganese(II) hydrazone water complex, 2477
mercury lactam erbium complex, 1079
mercury thio complex, 41
mercury thioether complex, 1545
molybdenum(0) carbonyl cyclopentadienyl bismuth complex, 123
molybdenum(II) acetate diamine complexes, 2573
molybdenum(II) aluminohydride diphosphine hydride complex, 595
molybdenum(II) carbonyl chloride phosphine stannyl complex, 1717
molybdenum(II) carbonyl cyclopentadienyl phosphine complex, 665
molybdenum(II,III,III) hydride iodide phosphine complexes, 2145
molybdenum(III) alkoxide alkylamide compounds, 2833
molybdenum(III) alkoxide amine arylamide complexes, 2309
molybdenum(III) halide phosphine complexes, 1667
molybdenum(III,IV) acetate dithiophosphate oxo thio complexes, 2203
molybdenum(IV) cyclopentadienyl hydride silyl compounds, 1189
molybdenum(V) chloride diimine dithiolate oxo thio complexes, 2813
molybdenum(V) chloride ether oxo magnesium complexes, 2457
molybdenum(V) dithiolate thio copper(I) complex, 2743
molybdenum(VI) alcohol alkoxide oxo heterometallic complex, 2617
molybdenum(VI) ethylenediamine oxo complex, 2057
neodymium alcohol alkoxide oxo complex, 1559
nickel dithiolate dithiapyranylidene complex, 687
nickel(II) azole thiocyanate thioether complex, 1031
nickel(II) chloride diphosphine complex, 415
nickel(II) imidazole pyridine-*N*-oxide - dithiocarbazate complex, 2659
nickel(II) pyridine-*N*-oxide thiolate complex, 2651
nickel(II) pyridine pyridine-*N*-oxide dithiocarbazate complex, 37
nickel(II) Schiff base thionate complexes, 179
niobium(-I) carbonyl cycloheptatrienyl diphosphine complex, 389
niobium(0) cycloheptatrienyl iodide phosphine complex, 389
niobium(III) allyl cyclopentadienyl complex, 1075
niobium(V) alkylimide chloride pyridine complex, 1959
osmium carbonyl diphosphazene complex, 881
palladium(II) chloride diphosphine complex, 415
palladium(II) chloride nitrogen - sulphur complexes, 2337
palladium(II) chloride phosphine thiolate complexes, 89,1343
phosphorus methyl selenium cyclc compound, 261
platinum(II) alkynyl diphosphine pyrazolate rhodium(I) complex, 2153
platinum(II) chloride hydrazinium complex, 579
platinum(II) chloride iminoether complex, 1573
platinum(II) chloride phosphinoamine complex, 501
platinum(II) chloride phosphine complex, 2737
platinum(II) chloride phosphine thiolate complex, 851
platinum(II) diimine cyclometallated compound, 255
platinum(IV) bromide diamine thioether cyclic complex, 19
platinum(IV) pentasulphide complex, 2501
potassium alcohol alkoxide

complex, 337
potassium arene siloxide complex, 2353
potassium arylamide diamine pyridine complexes, 1839
potassium crown ligand ether siloxide complex, 2699
rhenium alkylimide carbonyl complex, 1423
rhenium(0) carbonyl diphosphinoferrocene complex, 2437
rhenium(II) carboxylate chloride cyanotrihydroborate diphosphine nitrile complexes, 79
rhenium(II,III,III) chloride sulphate complex, 741
rhenium(V) amine chloride oxo phenoxide phosphine Schiff base complexes, 243
rhenium(V) chloride diazenide maltol phosphine complex, 1539
rhenium(VI) arylimide maltol phosphine complex, 1539
rhenium(VII) alkylimide amine carboxylate oxo phosphide siloxide complexes, 2241
rhenium(VII) alkylimide oxo sulphonate complex, 2647
rhodium(I) carbonyl diene hydride phosphide phosphine iron(0) complexes, 543
rhodium(I) carbonyl diphosphine pyrazolate platinum(II) complex, 2153
rhodium(III) carboxylate phosphine quinaldate water complex, 187
rhodium(III) chloride amine oxime complex, 1617
rhodium(III) chloride ether oxime complex, 1611
rubidium alcohol alkoxide complex, 337
ruthenium bromide hydroxyquinoline nitrosyl complex, 583
ruthenium carbonyl phosphine thio tungsten complexes, 447
ruthenium(II) aminopyridine arene chloride complexes, 1727
ruthenium(II) arene chloride dimethylphosphite copper(II) complex, 1091
ruthenium(II) cyclopentadienyl phosphine pyridylhydrazone complex, 2483
ruthenium(II,III) carboxylate chlorides, 491,2273
ruthenium(III) acetate oxo phosphine complex, 113
ruthenium(III) chloride cyclopentadienyl diphosphine complex, 1713
silicon alkyl iminyls, 1147
silver amine thioether complex, 19
silver betaine nitrate complexes, 1723,2687
silver diphosphine complex, 737
silver phosphine iron(0) complex, 2423
silver pyridine pyridylhydrazone double helical complex, 127
sodium alcohol alkoxide heterometallic complexes, 2617
sodium arylamide pyridine complexes, 1839
sodium benzenedioxydiacetate water calcium complex, 1565
sodium diphenyldiselenophosphinate ether water complex, 2641
thallium(III) fluoride porphyrin, 885
thallium(III) methyl rhodanine complex, 1465
tin(IV) alkyl aryl ester iodide complex, 1085
tin(IV) alkyl chloride phenol complex, 2683
tin(IV) carboxylate hydroxide porphyrin water complexes, 509
tin(IV) silylamide metallacyclic compound, 1203
titanium(IV) cyclopentadienyl phenoxide, 1847
tungsten carbonyl phosphine thio ruthenium complexes, 447
tungsten(0) carbonyl diphosphine thioether complex, 1549
tungsten(II) carbonyl cyclopentadienyl phosphine silyl silylalkyl complexes, 1177
tungsten(III) alkoxide alkylamide siloxide compounds, 2839
tungsten(III) alkoxide amine arylamide complexes, 2309
tungsten(III) alkylamide germyl, 1215
tungsten(III,IV) dithiophosphate thio complexees, 2203
tungsten(V) chloride diphosphine complex, 595
tungsten(V) dithiolate thio copper(I) complex, 2743
tungsten(VI) alcohol alkoxide oxo sodium complex, 2617
tungsten(VI) alkoxide alkylimide amine chloride complex, 477
tungsten(VI) chloride ether oxo complex, 2417
tungsten(VI) chloride thio complex, 1311
tungsten(VI) oxo peroxo sulphate complex, 649
vanadium(IV) dipyridyl iminodiacetate oxo complex, 73
vanadium(IV) dithiocarbamate halide complexes, 1817
yttrium hydroxide phenanthroline water complex, 2171
zinc phenanthroline pyridinethionate complex, 197
zirconium carboxylate chloride cyclopentadienyl complex, 2341
X-ray diffraction
cadmium(II) halide pyridine-*N*-oxide complexes, 2111
cadmium(II) mercaptothiazolate, 325
niobium, tantalum alcohol halide complexes, 2031
Xylyls
palladium(II), 2037

Y

Ytterbium
amidopyridine nitrate thiocyanate complexes, 2405
chloride hydrazone phenanthroline water complex, 1491
cyclopentadienyl nitrophenoxide nitrosophenoxide complexes, 27
disulphoxide perchlorate complex, 629
hydrazone complex, 2185
hydrazone water complex, 2779
Yttrium
alcohol alkoxide ether pyridine complexes, 1049
carboxylate chloride cyclopentadienyls, 1599
chloride hydrazone phenanthroline water complex, 1491
hydroxide phenanthroline water complexes, 2171

Z

Zeolite Y, formation of palladium carbonyl phosphine complexes in, 673
Zinc
carboxylate diketonate, 121
cyanide solubility product, 1105
diimine pyridinethionate complexes, 197
hydrazone phenoxide uranium(VI) complex, 779
phenanthroline complex, 1803
phosphonate ruthenium(III) complex, 2229
pyridylcarbinol complex, 2791
salicylaldimine thioether sexidentate complexes, 823
Schiff base thiolate complexes, 771
sexidentate amine complex, 409
Zirconium
alkene cyclopentadienyl diene complexes, 1
alkoxide lanthanum compounds, 949
aryls, 137
carboxylate chloride cyclopentadienyl complex, 2341
chloride cyclopentadienyl disilylmethyls, 1177
cyclopentadienyl silyls, in dehydrocoupling reactions, 1239
peroxide salicylaldimine complexes, 819
peroxo Schiff base thiolate complexes, 973